

BUILDING AUTOMATION
CONTROL TECHNOLOGY
SENSOR TECHNOLOGY

alre



HEATING TECHNOLOGY

energy-efficient and timeless



ALRE HEATING TECHNOLOGY. **COMFORTABLE TEMPERATURE IN EVERY ROOM.**

In our range of heating technology products, you can find the perfect thermostat for any requirement. Configurable daily programs with display controllers ensure energy-efficient heating. Our surface-mounted thermostats are among the slimmest in the world and are hallmarked by timeless design, quality and long service life. They control and monitor the temperature in offices, homes, hotels and hospitals. Assorted variants meet any requirement. Our flush-mounted thermostats fit all switch ranges and are available in various RAL colours for optimal colour matching.

**alre thermostats:
designed and made in Germany.**

APPLICATION **EXAMPLES:**

- + Hot water underfloor heating
- + Electric underfloor heating systems
- + Natural stone heating systems
- + Night storage heating systems
- + Tiled stove heating systems
- + Partial air conditioners
- + Mobile radiators
- + Accessories such as terminal strips and actuators



OVERVIEW

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ROOM/FLOOR TEMPERATURE CONTROLLERS

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TERMINAL STRIPS FOR HEATING MANIFOLDS / VALVE ACTUATORS

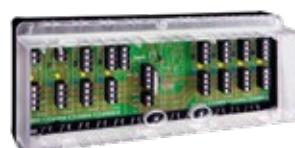
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**ROOM TEMPERATURE
CONTROLLER,
SURFACE-MOUNTED
ULTRA-SLIM, RTBSB**



**ROOM TEMPERATURE
CONTROLLER,
MECHANICAL, RTBSU**



**TERMINAL STRIP FOR
HEATING MANIFOLD**



**ROOM / FLOOR
TEMPERATURE
CONTROLLER HTRRUU**



HEATING CONTROLLER OVERVIEW

	RTBSB-																								
TYPE	001.000	001.002	001.010	001.026	001.045	001.048	001.062	001.065	001.086	001.096	001.110	001.202	001.500	001.910	001.910/2	001.948/1	201.000	201.002	201.010	201.034	201.062	201.202	201.500	001.401	001.411
PAGE	8	8	9	9	9	10	10	10	10	11	11	11	11	12	12	13	<?><?><?><?><?><?><?><?>	18	19						
HOUSING DESIGN																									
Berlin 1000	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
Berlin 2000	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
Berlin 3000																									
Berlin flush-mounted																									
Berlin 2000 with plug																					x	x			
SENSOR																									
Bimetal (NC contact)	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
Bimetal (toggler)		x	x	x	x		x		x		x		x	x	x	x	x	x	x	x	x	x	x		
NTC, internal																									
NTC, external																									
NTC for floor monitoring																									
CONTROL TYPE																									
Heating controller	x	x	x*	x*	x*	x*	x	x*	x	x	x*	x	x	x*	x*	x*	x	x	x	x*	x	x	x		
Cooling function		x		x	x		x		x		x		x	x	x	x	x	x	x	x	x	x	x		
Cooling function with fan output			x																						
Model with clock																									
PIPE SYSTEM																									
Air conditioning controller in 2-pipe system	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
Air conditioning controller in 4-pipe system																									
APPLICATION																									
Natural stone heating										x	x														
Tiled stove heating																									
Electric direct heating systems									x	x	x										x	x			
Electric floor heating																									
Night storage heater																									
Hot water floor heating	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
Partial air conditioner		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
FEATURES																									
Output 'Temperature reduction'	x																								
Input 'Temperature reduction'		x																							
Switch 'On/Off'		x				x															x				
Switch 'Heating/Cooling'							x														x				
Switch 'Heating/Off/Cooling'																									
Switch 'Reduction/Comfort/Automatic'																									
Switch 'Auxiliary heating'																									
Display																					x	x			
Display with backlighting																									
Indicator lamp 'Heating'							x			x											x	x			
Indicator lamp 'Reduction'																									
Indicator lamp 'Auxiliary heating'																									
TECHNOLOGY																									
Control range -20 ... +30 °C	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
Control range 5 ... 30 °C																									
Control range 10 ... 42 °C																									
Control range 10 ... 50 °C																									
Control range 10 ... 60 °C							x																		
Control range 20 ... 80 °C																	x								
3000 W switching power								x	x												x	x			
Internal setting											x	x	x	x	x	x	x	x	x	x	x	x	x		
2-wire connection											x		x	x	x	x	x	x	x	x	x	x	x		
24 V~										x										x					
230 V~	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
24 V~ or 230 V~									x				x	x	x	x	x	x	x	x	x	x	x		

x * Heating controllers using normally open valve actuators



HEATING CONTROLLER OVERVIEW

	RTBSU-														
TYPE	401.000	401.002	401.010	401.034	401.052	401.062	401.063	401.065	401.075	401.086	401.202	401.210	401.262	401.265	401.902
PAGE	24	25	25	25	26	26	26	26	27	27	27	28	28	28	29
HOUSING DESIGN															
Berlin 1000															
Berlin 2000															
Berlin 3000															
Berlin flush-mounted	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Berlin 2000 with plug															
SENSOR															
Bimetal (NC contact)	x	x		x	x	x			x	x	x	x	x	x	x
Bimetal (toggler)			x				x	x			x	x			
NTC, internal															
NTC, external															
NTC for floor monitoring															
CONTROL TYPE															
Heating controller	x	x	x*	x	x	x	x	x*	x	x	x	x*	x	x*	x
Cooling function		x					x	x			x	x			
Cooling function with fan output															
Model with clock															
PIPE SYSTEM															
Air conditioning controller in 2-pipe system		x				x	x				x	x			
Air conditioning controller in 4-pipe system															
APPLICATION															
Natural stone heating								x							
Tiled stove heating															
Electric direct heating systems								x							
Electric floor heating															
Night storage heater					x										
Hot water floor heating	x	x	x	x		x	x	x	x		x	x	x	x	x
Partial air conditioner		x				x	x				x	x			
FEATURES															
Output 'Temperature reduction'	x	x				x		x		x	x	x	x	x	x
Input 'Temperature reduction'			x				x		x	x	x	x	x	x	x
Switch 'On/Off'			x								x				
Switch 'Heating/Cooling'				x				x					x		
Switch 'Heating/Off/Cooling'				x											
Switch 'Reduction/Comfort/Automatic'						x			x						
Switch 'Auxiliary heating'			x												
Display															
Display with backlighting															
Indicator lamp 'Heating'	x			x							x				
Indicator lamp 'Reduction'						x									
Indicator lamp 'Auxiliary heating'		x													
TECHNOLOGY															
Control range -20 ... +30 °C	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Control range 5 ... 30 °C															
Control range 10 ... 42 °C															
Control range 10 ... 50 °C															
Control range 10 ... 60 °C			x									x			
Control range 20 ... 80 °C															
3000 W switching power								x							
Internal setting									x				x		
2-wire connection										x	x	x	x	x	
24 V~	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
230 V~													x		
24 V~ or 230 V~															



HEATING CONTROLLER OVERVIEW

	FTR														
TYPE	101.000	101.002	101.010	101.034	101.052	101.062	101.063	101.065	101.075	101.086	101.202	101.210	101.262	101.265	101.902
PAGE	44	45	45	45	46	46	46	46	47	47	47	47	48	48	49
HOUSING DESIGN															
Berlin 1000															
Berlin 2000															
Berlin 3000															
Berlin flush-mounted	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Berlin 2000 with plug															
SENSOR															
Bimetal (NC contact)	x	x		x	x	x		x	x	x	x	x	x	x	x
Bimetal (toggler)			x			x	x			x	x				
NTC, internal															
NTC, external															
NTC for floor monitoring															
CONTROL TYPE															
Heating controller	x	x	x*	x	x	x	x	x*	x	x	x	x*	x	x*	x
Cooling function			x			x	x			x	x				
Cooling function with fan output															
Model with clock															
PIPE SYSTEM															
Air conditioning controller in 2-pipe system			x			x	x			x	x				
Air conditioning controller in 4-pipe system															
APPLICATION															
Natural stone heating								x							
Tiled stove heating															
Electric direct heating systems								x							
Electric floor heating															
Night storage heater					x										
Hot water floor heating	x	x	x	x	x		x	x	x	x	x	x	x	x	x
Partial air conditioner			x			x	x			x	x	x	x	x	
FEATURES															
Output 'Temperature reduction'	x					x			x		x	x	x		
Input 'Temperature reduction'		x			x		x			x		x	x		
Switch 'On/Off'		x			x										
Switch 'Heating/Cooling'							x								
Switch 'Heating/Off/Cooling'						x									
Switch 'Reduction/Comfort/Automatic'															
Switch 'Auxiliary heating'															
Display															
Display with backlighting						x		x		x					
Indicator lamp 'Heating'							x			x					
Indicator lamp 'Reduction'															
Indicator lamp 'Auxiliary heating'															
TECHNOLOGY															
Control range -20 ... +30 °C				x											
Control range 5 ... 30 °C	x	x	x			x	x	x	x	x	x	x	x	x	x
Control range 10 ... 42 °C															
Control range 10 ... 50 °C															
Control range 10 ... 60 °C					x										x
Control range 20 ... 80 °C															
3000 W switching power						x	x								
Internal setting											x	x	x		
2-wire connection									x			x			
24 V~									x		x	x		x	
230 V~	x	x	x	x	x	x	x	x	x	x	x	x			
24 V~ or 230 V~							x						x		

HEATING CONTROLLER OVERVIEW

	HTRRUu	HTRRB-	HTRRBu-	RTERU-	FETR
TYPE	210.021	011.010 011.410 110.021	110.117/21	010.715#21 010.715#00	101.700 101.715
PAGE	63	66 66 68	20	70 70	71 71 71

HOUSING DESIGN

Berlin 1000					
Berlin 2000		x	x		
Berlin 3000			x	x	
Berlin flush-mounted	x			x	x
Berlin 2000 with plug				x	x

SENSOR

Bimetal (NC contact)					
Bimetal (toggler)					
NTC, internal	x			x	
NTC, external	x	x	x	x	x
NTC for floor monitoring	x				x

CONTROL TYPE

Heating controller	x	x	x	x	x	x	x	x	x
Cooling function									
Cooling function with fan output									
Model with clock	x			x	x				

PIPE SYSTEM

Air conditioning controller in 2-pipe system									
Air conditioning controller in 4-pipe system									

APPLICATION

Natural stone heating	x			x					
Tiled stove heating		x							
Electric direct heating systems	x			x					
Electric floor heating	x	x	x		x	x	x	x	x
Night storage heater									
Hot water floor heating	x		x	x	x	x	x	x	x
Partial air conditioner									

FEATURES

Output 'Temperature reduction'		x	x						
Input 'Temperature reduction'	x			x	x	x	x	x	x
Switch 'On/Off'			x	x	x		x	x	
Switch 'Heating/Cooling'						x			
Switch 'Heating/Off/Cooling'									
Switch 'Reduction/Comfort/Automatic'			x	x					
Switch 'Auxiliary heating'									
Display			x						
Display with backlighting		x							
Indicator lamp 'Heating'				x	x	x	x	x	x
Indicator lamp 'Reduction'					x	x	x		
Indicator lamp 'Auxiliary heating'									

TECHNOLOGY

Control range -20 ... +30 °C									
Control range 5 ... 30 °C	x	x	x	x					
Control range 10 ... 42 °C			x						x
Control range 10 ... 50 °C				x	x		x		
Control range 10 ... 60 °C					x				
Control range 20 ... 80 °C						x			
3000 W switching power									
Internal setting					x				
2-wire connection									
24 V~									
230 V~	x	x	x	x	x	x	x	x	x
24 V~ or 230 V~									



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000



TECHNICAL DATA

Design:	Berlin 2000
Surface finish:	matt
Housing colour:	pure white, like RAL 9010
Housing material:	ABS plastic
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	screw-type terminals 0.12 mm ² to 2.5 mm ²
Mounting / attachment:	surface- / wall-mounting (4-hole assembly on flush-mounted socket)
Protection rating:	IP30
Safety and EMC:	according to DIN EN 60730
Average power consumption:	< 0.5 W
Switching element:	bimetallic contact
Sensor:	bimetal
General features:	thermal feedback

APPLICATION

Control or monitoring of temperatures in closed spaces. Suitable for all heating systems.

Valve actuator: normally closed. If normally open heating valves are available, they should be connected with the cooling output of the change-over switch (toggler).

Up to a maximum of 10 actuators for valves can be connected (normally closed, NC); with a toggler, on the NO contact, up to 5 units (in this context, please check the switching capacity listed in the technical specifications).

Installation note: Owing to the existing wiring space in the controller itself, installation on a flush-mounted socket is recommended, but it can also be performed on a plane, non-conducting substrate.

Explanations of technical terms can be found in the annex to the product catalogue or at www.alre.de.

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-001.000	MA01000	<p>General features: Mechanical range limitation; scale: Degrees Celsius; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p>		
RTBSB-001.002	MA010100	<p>General features: ECO function; mechanical range limitation; scale: degrees Celsius; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p> <p>Input 'temperature reduction': Approx. 4 K (230 VAC, 50 Hz)</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-001.010	MA010200	<p>General features: Mechanical range limitation; scale: degrees Celsius; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: Heating (terminal 3) 10 (4) A, cooling (terminal 1) 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: Terminal 3: 2300 W, terminal 1: 1150 W</p> <p>Switching contact: Changeover switch (toggler), max. 10 actuators output terminal 3, max. 5 actuators output terminal 1)</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating or cooling</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p>		
RTBSB-001.026	MA010900	<p>General features: mechanical range limitation; scale: Degrees Celsius; on/off switch; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: Heating (terminal 3) 10 (4) A, cooling (terminal 1) 5 (2) A, fan (terminal 2) 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: terminal 3: 2300 W, terminal 1: 1150 W, terminal 2: 1150 W</p> <p>Switching contact: Changeover switch (toggler), max. 10 actuators output terminal 3, max. 5 actuators output terminal 1)</p> <p>Output signal: switching (230 VAC, 50 Hz); fan permanently operating (230 VAC, 50 Hz) if device has been switched on</p> <p>Control function: Heating or cooling</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p>		
RTBSB-001.045	MA011200	<p>General features: Mechanical range limitation; scale: Degrees Celsius; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: -20 to +30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: Heating (terminal 3) 10 (4) A, cooling (terminal 1) 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: terminal 3: 2300 W, terminal 1: 1150 W</p> <p>Switching contact: Changeover switch (toggler), max. 10 actuators output terminal 3, max. 5 actuators output terminal 1)</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating or cooling</p> <p>Control range: -20 to +30 °C</p> <p>Hysteresis: Approx. 1.5 K at a temperature change of max. 4 K/h</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

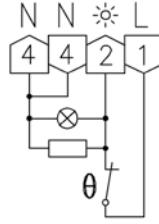
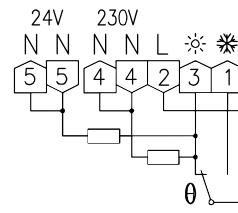
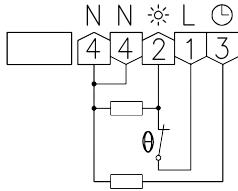
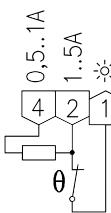
SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-001.048	MA011300	<p>General features: Mechanical range limitation; scale: Degrees Celsius; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 10 to 60 °C</p> <p>Protection class: II, if properly mounted Max. switching current: heating (terminal 3) 10 (4) A, cooling (terminal 1) 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: terminal 3: 2300 W, terminal 1: 1150 W</p> <p>Switching contact: Changeover switch (toggler, max. 10 actuators output terminal 3, max. 5 actuators output terminal 1)</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating or cooling</p> <p>Control range: 10 to 60 °C</p> <p>Hysteresis: approx. 1.5 K at a temperature change of max. 4 K/h</p>		
RTBSB-001.062	MA012400	<p>General features: ECO function; 'heating' display; mechanical range limitation; scale: degrees Celsius; on/off switch; external setting</p> <p>Input temperature reduction: approx. 4 K (230 VAC, 50 Hz)</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Output signal: heating, switching (230 VAC, 50 Hz)</p> <p>Control function: Heating</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p>		
RTBSB-001.065	MA010600	<p>General features: mechanical range limitation; scale: degrees Celsius; heating / cooling switch; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 1150 W</p> <p>Switching contact: Changeover switch (toggler, max. 5 actuators)</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating or cooling</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p>		
RTBSB-001.086	MA010800	<p>General features: mechanical range limitation; 3000 W switching power, for electric direct heating systems, natural stone heating; multi-digit display 1 to 6; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: 13 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 3000 W</p> <p>Switching contact: NC contact</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: heating</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: approx. 1 K at a temperature change of max. 4 K/h</p> <p>Accessories: can be combined with plug-in socket JZ-19</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-001.096	MA012500	like RTBSB-001.086, but with 'heating' display (LED red)		
RTBSB-001.110	MA012701	<p>General features: Mechanical range limitation; scale: degrees Celsius; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz or 24 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted; with 24 V, protection class III</p> <p>Max. switching current: heating (terminal 3) 230 VAC 10 (4) A or 24 VAC 2 (2) A, cooling (terminal 1) 5 (2) A or 24 VAC 2 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 24 VAC, 50 Hz</p> <p>Switching power: Terminal 3: 2300 W at 230 VAC, 48 W at 24 VAC, terminal 1: 1150 W at 230 VAC, 48 W at 24 VAC</p> <p>Switching contact: Changeover switch (toggler, max. 5 actuators)</p> <p>Output signal: switching (230 VAC, 50 Hz or 24 VAC, 50 Hz)</p> <p>Output signal: cooling, switching (230 VAC, 50 Hz or 24 VAC, 50 Hz)</p> <p>Control function: Heating or cooling</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p>		
RTBSB-001.202	MA011700	<p>General features: ECO function; mechanical range limitation; scale: degrees Celsius; external setting</p> <p>Operating voltage: 24 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: III</p> <p>Max. switching current: 1 (1) A</p> <p>Max. switching voltage: 24 VAC, 50 Hz</p> <p>Min. switching voltage: 24 VAC, 50 Hz</p> <p>Switching power: 24 W</p> <p>Switching contact: NC contact (max. 5 actuators)</p> <p>Output signal: switching (24 VAC, 50 Hz)</p> <p>Control function: Heating</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: approx. 0.5 K at a temperature change of max. 4 K/h</p> <p>Input temperature reduction: approx. 4 K (24 VAC, 50 Hz)</p>		
RTBSB-001.500	MA013401	<p>General features: 2-wire room temperature controller; mechanical range limitation; multi-digit display * to 6; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: 1 A or 5 A (see circuit diagram)</p> <p>Min. switching current: 0.5 A or 1 A (see circuit diagram)</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 230 W or 1150 W (see circuit diagram)</p> <p>Switching contact: NC contact</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: approx. 1 K at a temperature change of max. 4 K/h (load-dependent)</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-001.910	MA012000	<p>General features: ECO function; scale: Degrees Celsius; internal setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: heating (terminal 3) 10 (4) A, cooling (terminal 1) 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: Terminal 3: 2300 W, terminal 1: 1150 W</p> <p>Switching contact: Changeover switch (toggler, max. 10 actuators output terminal 3, max. 5 actuators output terminal 1)</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: Heating or cooling</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: Approx. 0.5 K at a temperature change of max. 4 K/h</p> <p>Input 'temperature reduction': Approx. 4 K (230 VAC, 50 Hz)</p>		
RTBSB-001.910 / 2	MA012100	<p>General features: ECO function; scale: Degrees Celsius; internal setting</p> <p>Operating voltage: 24 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: III</p> <p>Max. switching current: 1 (1) A</p> <p>Max. switching voltage: 24 VAC, 50 Hz</p> <p>Min. switching voltage: 24 VAC, 50 Hz</p> <p>Switching power: 24 W</p> <p>Switching contact: Changeover switch (toggler, max. 3 actuators)</p> <p>Output signal: switching (24 VAC, 50 Hz)</p> <p>Control function: Heating or cooling</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: approx. 0.5 K at a temperature change of max. 4 K/h</p> <p>Input temperature reduction: approx. 4 K (24 VAC, 50 Hz)</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
	MA012600	<p>General features: Scale: degrees Celsius; internal setting</p> <p>Operating voltage: 230 VAC, 50 Hz or 24 VAC, 50 Hz</p> <p>Ambient temperature: 10 to 60 °C</p> <p>Protection class: II, if properly mounted; with 24 V, protection class III</p> <p>Max. switching current: heating (terminal 3) 230 VAC 10 (4) A or 24 VAC 2 (2) A, cooling (terminal 1) 5 (2) A or 24 VAC 2 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 24 VAC, 50 Hz</p> <p>Switching power: terminal 3: 2300 W at 230 VAC, 48 W at 24 VAC, terminal 1: 1150 W at 230 VAC, 48 W at 24 VAC</p> <p>Switching contact: changeover switch (toggler, max. 10 actuators output terminal 3, max. 5 actuators output terminal 1)</p> <p>Output signal: switching (230 VAC, 50 Hz or 24 VAC, 50 Hz)</p> <p>Control function: heating or cooling</p> <p>Control range: 10 to 60 °C</p> <p>Hysteresis: approx. 1.5 K at a temperature change of max. 4 K/h</p>		

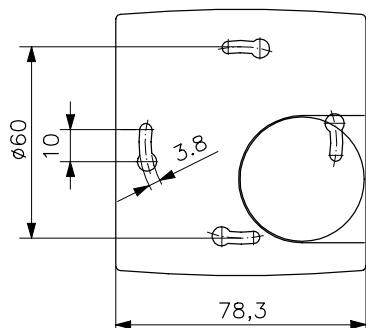
Accessories: terminal strips VO0xx, suitable valve actuators ZBOOA



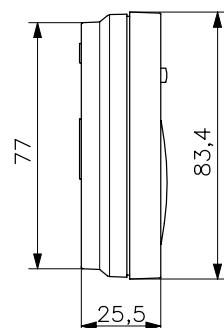
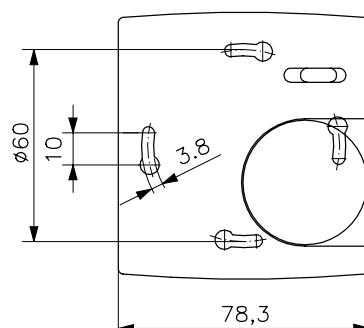
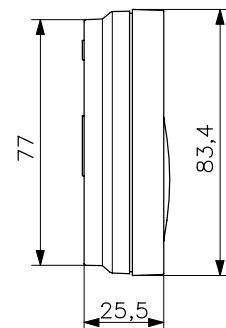
You can find other/similar controllers with outputs for heating/cooling and noiseless controllers in the Air Conditioning Technology chapter (note: applies to KTRTB, for example)

ILLUSTRATIONS

RTBSB



RTBSB with switch





ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED 'SUPER-THIN' INSTALLATION – DESIGN BERLIN 1000



TECHNICAL DATA

Design:	Berlin 1000
Surface finish:	glossy
Housing colour:	pure white, like RAL 9010
Housing material:	ABS plastic
Ambient temperature:	0 ... 30 °C
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	screw-type terminals 0.33 mm ² to 1.5 mm ²
Mounting / attachment:	Surface/wall mounting (4-hole assembly on flush-mounted socket)
Protection rating:	IP30
Safety and EMC:	according to DIN EN 60730
Average power consumption:	< 0.25 W
Max. switching current:	2 (1) A
Switching element:	bimetallic contact
Sensor:	bimetal
Control range:	5 ... 30 °C
Hysteresis:	approx. 0.5 K at a temperature change of max. 4 K/h
General features:	mechanical range limitation; thermal feedback; external setting

APPLICATION

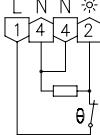
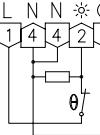
Control or monitoring of temperatures in closed spaces.

Valve actuator: normally closed. If normally open heating valves are available, they should be connected with the cooling output of the changeover switch (toggler).

Up to a maximum of 10 actuators for valves can be connected (normally closed, NC); with a toggler, on the NO contact, up to 5 units (in this context, please check the switching capacity listed in the technical specifications).

Installation note: Owing to the existing wiring space in the controller itself, installation on a flush-mounted socket is recommended, but it can also be performed on a plane, non-conducting substrate.

Explanations of technical terms can be found in the annex to the product catalogue or at www.alre.de.

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-201.000	MA300000	General features: scale: degrees Celsius Operating voltage: 230 VAC, 50 Hz Protection class: II, if properly mounted Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 460 W Switching contact: NC contact (max. 10 actuators) Output signal: switching (230 VAC, 50 Hz) Control function: heating		
RTBSB-201.000/08	MA300008	Like RTBSB-201.000 but with multi-digit display 1 to 6		
RTBSB-201.000-20	MA300800	Like RTBSB-201.000 but with housing colour: Traffic/studio white, similar to RAL 9016		
RTBSB-201.002	MA300100	General features: ECO function; scale: degrees Celsius Operating voltage: 230 VAC, 50 Hz Protection class: II, if properly mounted Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 460 W Switching contact: NC contact (max. 10 actuators) Output signal: switching (230 VAC, 50 Hz) Control function: heating Input temperature reduction: approx. 3 K (230 VAC, 50 Hz)		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED 'SUPER-THIN' INSTALLATION – DESIGN BERLIN 1000

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-201.010	MA300200	<p>General features: scale: Degrees Celsius Operating voltage: 230 VAC, 50 Hz Protection class: II, if properly mounted Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 460 W Switching contact: changeover switch (toggler, max. 10 actuators (NC contact), max. 5 actuators (NO contact)) Output signal: switching (230 VAC, 50 Hz) Control function: Heating or cooling</p>		
RTBSB-201.034	MA301400	<p>General features: 'heating' display; scale: degrees Celsius Operating voltage: 230 VAC, 50 Hz Protection class: II, if properly mounted Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 460 W Switching contact: NC contact (max. 10 actuators) Output signal: switching (230 VAC, 50 Hz) Control function: heating</p>		
RTBSB-201.062	MA300400	<p>General features: ECO function; 'heating' display; scale: degrees Celsius; on/off switch Operating voltage: 230 VAC, 50 Hz Protection class: II, if properly mounted Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 460 W Switching contact: NC contact (max. 10 actuators) Output signal: switching (230 VAC, 50 Hz) Control function: heating Input temperature reduction: approx. 3 K (230 VAC, 50 Hz)</p>		
RTBSB-201.065	MA300500	<p>General features: Climate controller for 2-pipe systems, especially heat pumps; scale: Degrees Celsius; 'heating / cooling' switch Operating voltage: 230 VAC, 50 Hz Protection class: II, if properly mounted Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 460 W Switching contact: Changeover switch (toggler, max. 5 actuators) Output signal: switching (230 VAC, 50 Hz) Control function: Heating or cooling</p>		
RTBSB-201.065 / 02	MA300502	Like RTBSB-201.065 but with multi-digit display 1 to 6		
RTBSB-201.202	MA302100	<p>General features: ECO function; scale: degrees Celsius Operating voltage: 24 VAC, 50 Hz Protection class: III Max. switching voltage: 24 VAC, 50 Hz Min. switching voltage: 24 VAC, 50 Hz Switching power: 48 W Switching contact: NC contact (max. 5 actuators) Output signal: switching (24 VAC, 50 Hz) Control function: heating Input temperature reduction: approx. 3 K (24 VAC, 50 Hz)</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED 'SUPER-THIN' INSTALLATION – DESIGN BERLIN 1000

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-201.500 	MA304000	<p>General features: 2-wire room temperature controller; multi-digit display * to 6</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Ambient temperature: 0 to 30 °C</p> <p>Protection class: II, if properly mounted</p> <p>Max. switching current: 20 mA</p> <p>Min. switching current: 5 mA</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 4.6 W (max. 2 actuators)</p> <p>Switching contact: NC contact</p> <p>Output signal: switching (230 VAC, 50 Hz)</p> <p>Control function: heating</p> <p>Control range: 5 to 30 °C</p> <p>Hysteresis: approx. 0.5 K at a temperature change of max. 4 K/h (load-dependent)</p>		

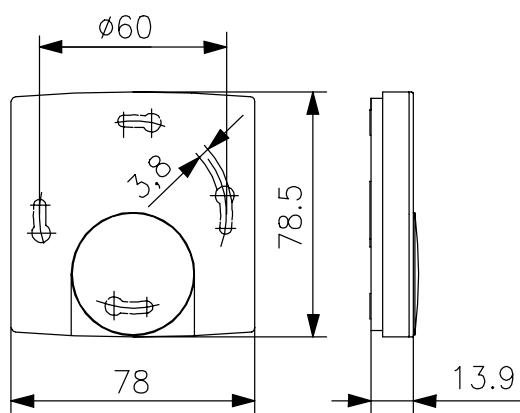
Accessories: terminal strips VO0xx, suitable valve actuators ZBOOA

You can find other / similar controllers with outputs for heating/cooling and noiseless controllers in the 'Air Conditioning Technology' chapter (note: applies to KTRTB, for example).

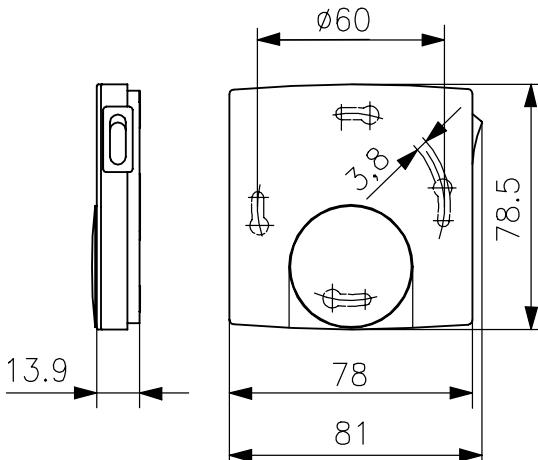
ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
JZ-21 	MN990006	Adapter frame for mounting room temperature controllers of the Berlin 1000 series in flush-mounted sockets up to 80x80 mm	
ET-01 	MA990000	Adjusting knob for B1000 series devices, scale: Degrees Celsius, pure white glossy	
ET-02 	MA990001	Adjusting knob for B1000 series devices, multi-digit display 1 to 6, pure white glossy	

ILLUSTRATIONS

RTBSB-201.xxx/KTRTB



RTBSB-201.xxx with ON/OFF switch at the side



NOTES





ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED OR PLUG-IN INSTALLATION – DESIGN BERLIN



TECHNICAL DATA

Design:	Berlin 2000
Surface finish:	matt
Housing colour:	pure white, like RAL 9010
Housing material:	ABS plastic
Operating voltage:	230 V AC, 50 Hz
Ambient temperature:	0 ... 30 °C
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Protection rating:	IP30
Protection class:	II for loads of protection classes I and II
Safety and EMC:	according to DIN EN 60730
Max. switching voltage:	230 V AC, 50 Hz
Min. switching voltage:	230 V AC, 50 Hz
Switching element:	bimetallic contact
Switching contact:	NC contact
Output signal:	switching (230 VAC, 50 Hz)
Sensor:	bimetal
Control function:	Heating
Control range:	5 ... 30 °C
Hysteresis:	approx. 1 K at a temperature change of max. 4 K/h

APPLICATION

For controlling the room temperature for radiators, heating chimneys, direct electric heating systems, marble heating systems etc.

Attention! For loads > 2,300 W, the wall socket must be designed for 16 A (danger of fire).

The plugs are designed in such a way that they can also be used in sockets with a central pin (for example, as used in France).

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
JZ-19 	MN990003	General features: plug-in socket (as with RTBSB-001.411/RTBSB-001.474) completely pre-wired Mounting / attachment: can be fitted with room thermostat RTBSB-001.xxx Protection rating: depends on the pre-fitted room thermostat Protection class: depends on the pre-fitted room thermostat Max. switching current: depends on the pre-fitted room thermostat Switching power: 3000 W		
RTBSB-001.086 	MA010800	General features: mechanical range setting; 3000 W switching power for electric direct heating systems, natural stone heating; thermal feedback; multi-digit display 1 to 6; external setting Electrical connection: screw-type terminals 0.12 mm ² to 2.5 mm ² Average power consumption: <0.5 W Max. switching current: 13 (4) A Switching power: 3000 W Accessories: can be combined with plug-in socket JZ-19		
RTBSB-001.096 	MA012500	like RTBSB-001.086, but with 'heating' display (LED red)		
RTBSB-001.401 	MA013100	General features: mechanical range limitation; 3000 W switching power for electric direct heating systems, natural stone heating; multi-digit display 1 to 6; external setting Electrical connection: Schuko adapters Mounting / attachment: optionally surface/wall mounting (4-hole assembly on flush-mounted socket) or with adapter plate (2-hole assembly) for wall hanging Average power consumption: <0.1 W Max. switching current: 13 (4) A Switching power: 3000 W Connecting cable: 1.5 m		



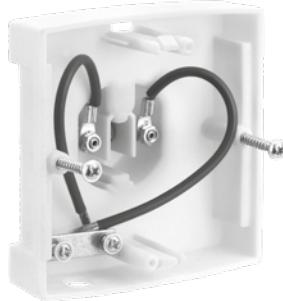
ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSB

SURFACE-MOUNTED OR PLUG-IN INSTALLATION – DESIGN BERLIN

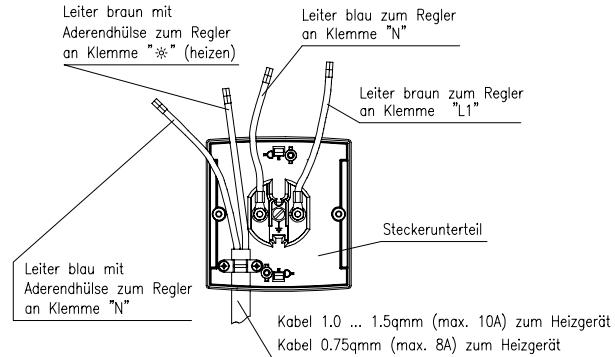
TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSB-001.411	MA013200	<p>General features: mechanical range limitation; 3000 W switching power for electric direct heating systems, natural stone heating; multi-digit display 1 to 6; external setting</p> <p>Electrical connection: pre-fitted Schuko plug-in socket JZ-19 at the controller, 1.5-m cable with Schuko coupling</p> <p>Mounting/attachment: ready-to-plug</p> <p>Average power consumption: <0.1 W</p> <p>Max. switching current: 13 (4) A</p> <p>Switching power: 3000 W</p> <p>Hysteresis: approx. 1 K at a temperature change of max. 4 K/h</p>		

ILLUSTRATIONS

Plug-in socket



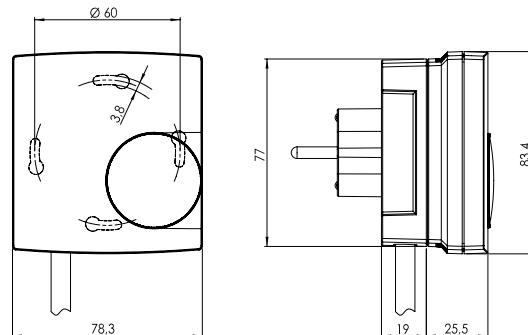
Plug-in socket



RTBSB-001.411



RTBSB-001.411
(Different from dimensions of RTBSB-001.401)



RTBSB-001.401





ROOM TEMPERATURE CONTROLLER WITH CLOCK, ELECTRONIC, HTRRBU

SURFACE-MOUNTED INSTALLATION – BERLIN 3000



TECHNICAL DATA

Design:	Berlin 3000
Surface finish:	matt
Housing colour:	pure white, like RAL 9010
Housing material:	ABS plastic
Operating voltage:	230 V AC, 50 Hz
Ambient temperature:	0 ... 30 °C
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	screw-type terminals
Mountin / attachment:	surface/wall mounting or by means of an adapter plate on a flush-mounted socket
Protection rating:	IP30
Protection class:	II, if properly mounted
Safety and EMC:	according to DIN EN 60730
Max. switching current:	Heating (terminal 4) 8 (2) A, cooling (terminal 3) 100 mA
Max. switching voltage:	230 V AC, 50 Hz
Min. switching voltage:	230 V AC, 50 Hz
Switching power:	terminal 4: 1840 W, terminal 3: 23 W
Switching element:	relay
Switching contact:	NO contact
Output signal:	heating, switching (230 VAC, 50 Hz)
Sensor:	NTC
Control function:	Heating
Control range:	5 ... 30 °C
Hysteresis:	< 1 K
Display type:	symbol display
Output 'temperature reduction':	switching (230 VAC, 50 Hz) (for pilot function)

APPLICATION

For time-dependent control of temperatures in closed spaces. Suitable for all heating systems.

Valve actuator: normally closed.

It can be used as a master (pilot regulator) for the temperature reduction of other controllers. Controllers of series FETR, RTBSU and RTBSB are suitable as slaves (satellite controllers).

Programming procedures for every day, familiar from mechanical timers, by means of 'electronic tabs'. Shortest switching time 15 min.

Load setting: The control accuracy is influenced by the different levels of intrinsic heating of the controller depending on the magnitude of the heating load. By inputting the heating load, this influence is compensated and the control accuracy is retained.

General features:
pilot function; ECO function, ECO value adjustable; 'ECO' display; 'on/off' display; 'heating' display; digital actual value display; child-safe features; power reserve (approx. 4 – 7 days); load setting; actual value correction / measured value correction; learning function; valve protection; holiday setting; party setting; automatic adjustment to standard / daylight savings time; mechanical range limitation; scale: degrees Celsius; reduction / comfort / automatic button; external setting; operation using direct-dial buttons; on / off button; information button; party function button; holiday setting button.

TYPE/IMAGE	ITEM NO.	FEATURES	EURO/PG
HTRRBu 110.117/21	MA600003		



ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
JZ-17	MN990001	Surface finish: matt Colour: pure white, like RAL 9010 Material: ABS plastic General features: adapter plate for mounting devices on flush-mounted sockets (including fastening screws for mounting the controller on the adapter plate)	



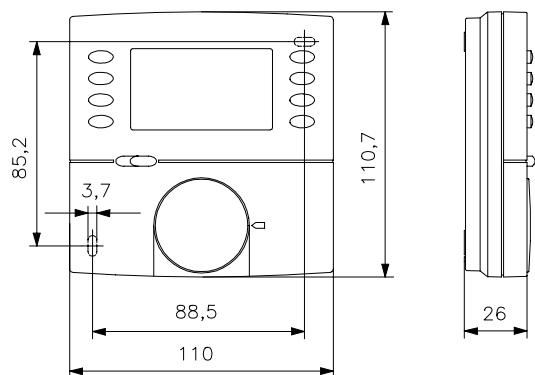


ROOM TEMPERATURE CONTROLLER WITH CLOCK, ELECTRONIC, HTRRBU

SURFACE-MOUNTED INSTALLATION – BERLIN 3000

ILLUSTRATIONS

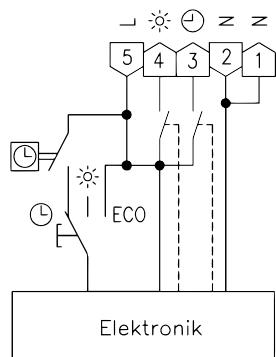
HTRRBu 110.XXX



Factory setting:

- setback temperature 17 °C
- Continuous time display
- Programme display using switching segments enabled
- Child-safe features disabled
- Automatic adjustment to summer/winter time enabled
- °C display, valve and pump protection disabled
- Learning function disabled
- Heating load 0.0 kW
- Comfort times:
Mon–Fri 5 am–9 am / 4 pm–10 pm,
Sat/Sun 6 am–10 pm

HTRRBu 110.XXX circuit diagram





YOUR **BENEFITS** AT A GLANCE

- + Simple electrical connection without screws
- + New terminals for quick and easy installation
- + Simplified wiring through colour-coded terminals
- + Time-saving modular design: Practical installation sequence for controller, frame and cover
- + Low installation volume for convenient and quick installation in flush-mounted sockets
- + Temperature can be controlled even without a cover
- + Closed design
- + Suitable for all conventional switch ranges
- + Up to 20 per cent subsidy with BAFA funding

NEW AT ALRE – **THE NEXT GENERATION BIMETAL CONTROLLER**

The new and optimised room controller offers you a number of advantages that make mounting and attachment considerably easier. This can save you time, and above all, costs.

OVERVIEW TYPE COMPARISON – FTR UND RTBSU:

ITEM NO.	TYPE	ITEM NO.	TYPE	REMARKS
UA010017	FTR 101.000#00	UA090000	RTBSU -401.000#00	
UN010009	FTR 101.000#21	UA090014	RTBSU -401.000#21	
UA010134	FTR 101.002#00	UA090001	RTBSU -401.002#00	
UA010222	FTR 101.010#00	UA090002	RTBSU -401.010#00	
UA012404	FTR 101.034#07	UA090004	RTBSU -401.034#00	+ JZ-016.000
UA012405	FTR 101.034#55	UA090004	RTBSU -401.034#00	+ JZ-016.100
UA010702	FTR 101.052#21	UA090015	RTBSU -401.052#21	
UA010811	FTR 101.062#00	UA090003	RTBSU -401.062#00	
UA011000	FTR 101.063#00	UA090006	RTBSU -401.063#00	
UA010910	FTR 101.065#00	UA090007	RTBSU -401.065#00	
UA010415	FTR 101.075#00	UA090008	RTBSU -401.075#00	
UA010615	FTR 101.086#00	UA090009	RTBSU -401.086#00	
UN010607	FTR 101.086#21	UA090016	RTBSU -401.086#21	
UA012008	FTR 101.202#00	UA090010	RTBSU -401.202#00	
UN102009	FTR 101.202#21	UA090010	RTBSU -401.202#00	+ JZ-001.000 + JZ-090.900
UA012301	FTR 101.210#00	UA090011	RTBSU -401.210#00	
UA012500	FTR 101.262#00	UA090012	RTBSU -401.262#00	
UA012501	FTR 101.262#21	UA090012	RTBSU -401.262#00	+ JZ-035.000 + JZ-090.900
UA012600	FTR 101.265#00	UA090017	RTBSU -401.265#00	
UA013000	FTR 101.902#07	UA090013	RTBSU -401.902#07	



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP



TECHNICAL DATA

Design:	Berlin UP
Housing material:	PA6 plastic
Ambient temperature:	0 ... 30 °C
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	Spring-loaded terminals (lever actuation type)
Mounting / attachment:	In flush-mounted socket – with suitable cover set, can be adapted to fit virtually any switch range (deep flush-mounted socket recommended)
Protection rating:	IP30
Protection class:	II, if properly mounted; with 24 VAC, protection class III
Safety and EMC:	according to DIN EN 60730
Max. power consumption:	< 0.5 W
Switching element:	bimetallic contact
Output signal:	switching
Sensor:	bimetal
Control range:	5 ... 30 °C
Setting range:	5 ... 30 °C
Hysteresis:	approx. 0.5 K at a temperature change of max. 4 K/h
General features:	thermal recirculation; multi-digit display

APPLICATION

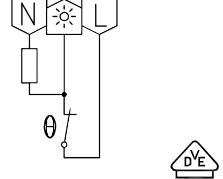
Control or monitoring of temperatures in closed, dry spaces. Suitable for all heating systems.

Valve actuator: normally closed. If normally open heating valves are available, they should be connected to the cooling output of the changeover switch (toggler), e.g., RTBSU-401.010

Up to a maximum of 10 actuators for valves can be connected (normally closed, NC); up to 5 units on the toggler with a NO contact.

In terms of visual aesthetics, the basic controllers (RTBSU-401xxx#00), in combination with a 55x55 mm / 70x70 mm cover set, fit perfectly in many switch ranges without the use of an insert frame.

The basic controllers (RTBSU-401.xxx#00) in combination with a 50x50 mm cover set fit in nearly all switch ranges with the use of an insert frame.

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSU-401.000#00 Comparison type: FTR 101.000#00	UA090000	General features: mechanical range limitation; external setting; protective cap; VDE-tested Operating voltage: 230 VAC, 50 Hz Max. switching current: 10 (4) A Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 2300 W Switching contact: NC contact (max. 10 actuators) Control function: heating Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery. Suitable set no.: JZ-001.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100 BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200/BJ		
RTBSU-401.000#21 Comparison type: FTR 101.000#21	UA090014	like RTBSU-401.000#00 but scope of delivery as follows: Controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSU

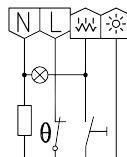
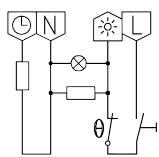
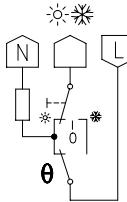
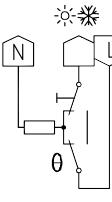
FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSU-401.002#00 Comparison type: FTR 101.002#00	UA090001	<p>General features: ECO function; mechanical range limitation; external setting; protective cap; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Input 'temperature reduction': Approx. 4 K (230 VAC, 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100 BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200 / BJ</p>		
RTBSU-401.010#00 Comparison type: FTR 101.010#00	UA090002	<p>General features: mechanical range limitation; external setting; protective cap; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: Heating terminal 10 (4) A, cooling terminal 5 (2) A</p> <p>max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: Heating terminal: 2300 W, Cooling terminal: 1150 W</p> <p>Switching contact: Changeover switch (toggler, max. 10 actuators output heating, max. 5 actuators output cooling)</p> <p>Control function: Heating or cooling</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100 BUSCH-JAEGER cover set Reflex S/SI Linear, pure white, glossy: JZ-001.200 / BJ</p>		
RTBSU-401.034#00 Comparison type: FTR 101.034#07/ FTR 101.034#55	UA090004	<p>General features: 'heating' display; mechanical range limitation; external setting; protective cap,</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery.</p> <p>Suitable set no.: JZ-016.xxx, e.g.: 50x50 mm cover set, pure white, glossy: JZ-016.000 cover set 55x55 mm, pure white, glossy: JZ-016.100</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSU-401.052#21 	UA0900015	<p>General features: 'Auxiliary heating' display; mechanical range limitation; auxiliary heating switch; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: the total current (heating + auxiliary heating) may not exceed 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: the total power output (heating + auxiliary heating) may not exceed 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Scope of delivery: Controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy</p>		
RTBSU-401.062#00 	UA090003	<p>General features: ECO function; 'heating' display; mechanical range limitation; 'on/off' switch; external setting; protective cap; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: heating</p> <p>Input 'temperature reduction': approx. 4 K (230 VAC, 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery.</p> <p>Suitable set no.: JZ-035.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-035.000 cover set 55x55 mm, pure white, glossy: JZ-035.100</p> <p>BUSCH-JAEGER cover set Reflex SI / SI Linear, pure white, glossy: JZ-035.200 / BJ</p>	 	
RTBSU-401.063#00 	UA090006	<p>General features: Climate controller for 2-pipe systems, mechanical range limitation; 'heating/off/cooling' switch; external adjustment; protective cap</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 1150 W</p> <p>Switching contact: Changeover switch (max. 5 actuators)</p> <p>Control function: Heating or cooling</p> <p>For cover sets see the separate overview 'alre flush-mounted range (cover sets)', not included in the delivery.</p> <p>Suitable set no.: JZ-038.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-038.000 cover set 55x55 mm, pure white, glossy: JZ-038.100</p>	 	
RTBSU-401.065#00 	UA090007	<p>General features: climate controller for 2-pipe systems, especially heat pumps; mechanical range limitation; 'heating/cooling' switch; external setting; protective cap</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 1150 W</p> <p>Switching contact: Changeover switch (toggler, max. 5 actuators)</p> <p>Control function: heating or cooling</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-037.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-037.000 cover set 55x55 mm, pure white, glossy: JZ-037.100</p>	 	



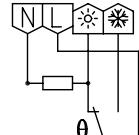
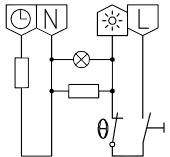
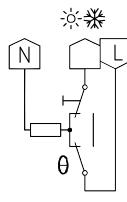
ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
RTBSU-401.075#00 Comparison type: FTR 101.075#00	UA090008	<p>General features: ECO function; 'reduction' display; mechanical range limitation; switch for reduction / heating / reduction via external timer switch; external setting; protective cap; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Input 'temperature reduction': Approx. 4 K (230 VAC, 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery.</p> <p>Suitable set no.: JZ-036.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-036.000 cover set 55x55 mm, pure white, glossy: JZ-036.100</p>		
RTBSU-401.086#00 Comparison type: FTR 101.086#00	UA090009	<p>General features: mechanical range limitation; 3000 W switching power, for electric direct heating systems, natural stone heating; external setting; protective cap</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 13 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 3000 W</p> <p>Switching contact: NC contact</p> <p>Control function: Heating</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI / SI Linear, pure white, glossy: JZ-001.200 / BJ</p>		
RTBSU-401.086#21 Comparison type: FTR 101.086#21	UA090016	like RTBSU-401.086#00 but scope of delivery as follows: Controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy		
RTBSU-401.202#00 Comparison type: FTR 101.202#00	UA090010	<p>General features: ECO function; mechanical range limitation; external setting; protective cap</p> <p>Operating voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Max. switching current: 1 (1) A</p> <p>Max. switching voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Min. switching voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Switching power: 24 W</p> <p>Switching contact: NC contact (max. 5 actuators)</p> <p>Control function: heating</p> <p>Input 'temperature reduction': approx. 4 K (24 VAC / 50 Hz, 24 VDC)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI / SI Linear, pure white, glossy: JZ-001.200 / BJ</p>		

**ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSU**

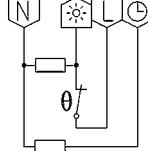
FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
 RTBSU-401.210#00 Comparison type: FTR 101.210#00	UA090011	General features: mechanical range limitation; external setting; protective cap Operating voltage: 24 VAC / 50 Hz, 24 VDC Max. switching current: 1 (1) A Max. switching voltage: 24 VAC/50 Hz, 24 VDC Min. switching voltage: 24 VAC/50 Hz, 24 VDC Switching power: 24 W Switching contact: Changeover switch (toggler, max. 5 actuators) Control function: Heating or cooling		
		Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery. Suitable set no.: JZ-001.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100 BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200/BJ		
 RTBSU-401.262#00 Comparison type: FTR 101.262#00	UA090012	General features: ECO function; 'heating' display; mechanical range limitation; 'on/off' switch; external setting; protective cap Operating voltage: 24 VAC / 50 Hz Max. switching current: 1 (1) A Max. switching voltage: 24 VAC / 50 Hz Min. switching voltage: 24 VAC / 50 Hz Switching power: 24 W Switching contact: NC contact (max. 5 actuators) Control function: heating Input temperature reduction: approx. 4 K (24 VAC / 50 Hz)		
		Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery. Suitable set no.: JZ-035.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-035.000 cover set 55x55 mm, pure white, glossy: JZ-035.100 BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-035.200/BJ		
 RTBSU-401.265#00 Comparison type: FTR 101.265#00	UA090017	General features: climate controller for 2-pipe systems, especially heat pumps; mechanical range limitation; 'heating / cooling' switch; external setting; protective cap Operating voltage: 24 VAC / 50 Hz, 24 VDC Max. switching current: 1 (1) A Max. switching voltage: 24 VAC / 50 Hz, 24 VDC Min. switching voltage: 24 VAC / 50 Hz, 24 VDC Switching power: 24 W Switching contact: Changeover switch (toggler, max. 5 actuators) Control function: Heating or cooling		
		Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery. Suitable set no.: JZ-037.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-037.000 cover set 55x55 mm, pure white, glossy: JZ-037.100		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, RTBSU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
	UA090013	<p>General features: ECO function; internal setting Operating voltage: 230 VAC, 50 Hz Max. switching current: 10 (4) A Max. switching voltage: 230 VAC, 50 Hz Min. switching voltage: 230 VAC, 50 Hz Switching power: 2300 W Switching contact: NC contact (max. 10 actuators) Control function: Heating Input 'temperature reduction': Approx. 4 K (230 VAC, 50 Hz) Scope of delivery: Controller, cover 50x50 mm, pure white (like RAL 9010), glossy</p>		

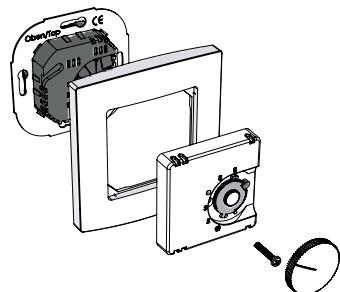
For model RTBSU-401.xxx#21, the protective cap is not included in the delivery.

Accessories terminal strips VOOxx, suitable valve actuators ZBOOA, suitable cover sets: see separate overview 'alre flush-mounting range (cover sets)'.

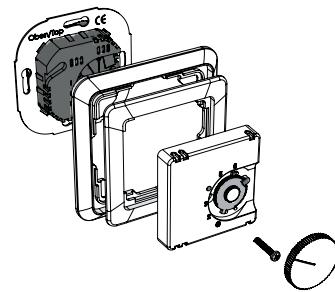
TYPE/IMAGE	ITEM NO.	FEATURES	EURO/PG
	VV000025	<p>General features: alre frame 'Berlin' (neutral) for all flush-mounted controllers with cover 50x50 mm Design: Berlin Surface finish: Glossy Colour: Pure white, like RAL 9010 Material: PC plastic</p>	
JZ-090.900	VV000048	like JZ-090.900, but for all flush-mounted controllers in combination with 55x55 mm cover	
JZ-090.910	VV000010	as for JZ-090.900, but colour similar to RAL 1013	

ILLUSTRATIONS

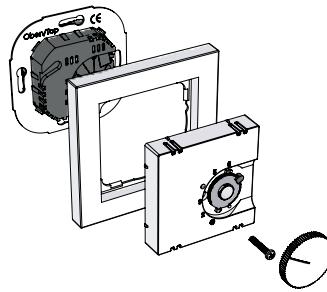
alre frame 'Berlin' (#21 types)



with 50x50 insert frame

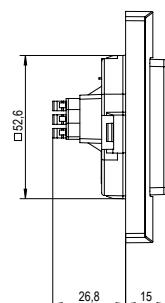
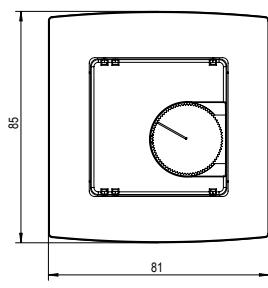


without 55x55 insert frame

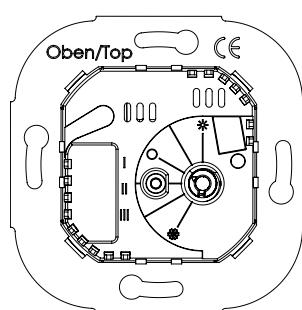


ILLUSTRATIONS

RTBSU with alre frame 'Berlin' (RTBSU-401.xxx#21 types)



RTBSU scale for temperature adjustment without cover set





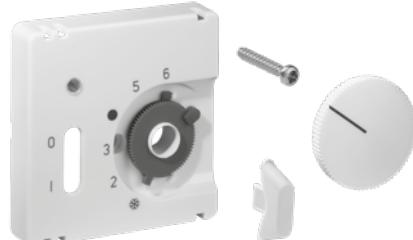
ALRE FLUSH-MOUNTED RANGE (50 X 50 MM COVER SETS)

ALL BASIC TYPES AND SUITABLE COVER SETS **50 X 50 MM**

BASIC TYPE	50x50 mm cover set PURE WHITE (RAL 9010) GLOSSY	50x50 mm cover set PURE WHITE (RAL 9010) MATT	50x50 mm cover set PEARL WHITE (RAL1013) GLOSSY	EURO/ PG			
	Cover set	Item no.	Cover set	Item no.	Cover set	Item no.	
RTBSU-401.000#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045	
RTBSU-401.002#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045	
RTBSU-401.010#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045	
RTBSU-401.034#00	JZ-016.000	UN990139	-	-	-	-	
RTBSU-401.062#00	JZ-035.000	UN990169	JZ-035.001	UN990193	JZ-035.010	UN990177	
RTBSU-401.063#00	JZ-038.000	UN990170	JZ-038.001	UN990194	JZ-038.010	UN990178	
RTBSU-401.065#00	JZ-037.000	UN990171	JZ-037.001	UN990195	JZ-037.010	UN990179	
RTBSU-401.075#00	JZ-036.000	UN990172	JZ-036.001	UN990196	JZ-036.010	UN990180	
RTBSU-401.086#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045	
RTBSU-401.202#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045	
RTBSU-401.210#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045	
RTBSU-401.262#00	JZ-035.000	UN990169	JZ-035.001	UN990193	JZ-035.010	UN990177	
RTBSU-401.265#00	JZ-037.000	UN990171	JZ-037.001	UN990195	JZ-037.010	UN990179	

In flush-mounted socket, it can be adapted to fit virtually any switch range.

BASIC TYPE	50x50 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.020)	50x50 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) MATT (JZ-xxx.021)	EURO/ PG			
	Cover set	Item no.	Cover set	Item no.		Cover set (example), individually foil-wrapped
RTBSU-401.000#00	JZ-001.020	UN990071	JZ-001.021	UN990100		
RTBSU-401.002#00	JZ-001.020	UN990071	JZ-001.021	UN990100		
RTBSU-401.010#00	JZ-001.020	UN990071	JZ-001.021	UN990100		
RTBSU-401.062#00	JZ-035.020	UN990185	JZ-035.021	UN990201		
RTBSU-401.063#00	JZ-038.020	UN990186	JZ-038.021	UN990202		
RTBSU-401.065#00	JZ-037.020	UN990187	JZ-037.021	UN990203		
RTBSU-401.075#00	JZ-036.020	UN990188	JZ-036.021	UN990204		
RTBSU-401.086#00	JZ-001.020	UN990071	JZ-001.021	UN990100		
RTBSU-401.202#00	JZ-001.020	UN990071	JZ-001.021	UN990100		
RTBSU-401.210#00	JZ-001.020	UN990071	JZ-001.021	UN990100		
RTBSU-401.262#00	JZ-035.020	UN990185	JZ-035.021	UN990201		
RTBSU-401.265#00	JZ-037.020	UN990187	JZ-037.021	UN990203		



SEE THE PRODUCT FINDER FOR ALL COVER SOLUTIONS AND SPECIAL COLOURS



ALRE FLUSH-MOUNTED RANGE (55 X 55 MM COVER SETS)

ALL BASIC TYPES AND SUITABLE COVER SETS **55 X 55 MM**

BASIC TYPE	55x55 mm cover set PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.100)		55x55 mm cover set PURE WHITE (RAL 9010) MATT (JZ-xxx.101)		55x55 mm cover set PEARL WHITE (RAL1013) GLOSSY (JZ-xxx.110)		EURO/ PG	55x55 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.120)		EURO/ PG
	Cover set	Item no.	Cover set	Item no.	Cover set	Item no.		Cover set	Item no.	
RTBSU-401.000#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
RTBSU-401.002#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
RTBSU-401.010#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
RTBSU-401.034#00	JZ-016.100	UN990140	–	–	–	–		–	–	
RTBSU-401.062#00	JZ-035.100	UN990173	JZ-035.101	UN990197	JZ-035.110	UN990181		JZ-035.120	UN990189	
RTBSU-401.063#00	JZ-038.100	UN990174	JZ-038.101	UN990198	JZ-038.110	UN990182		JZ-038.120	UN990190	
RTBSU-401.065#00	JZ-037.100	UN990175	JZ-037.101	UN990199	JZ-037.110	UN990183		JZ-037.120	UN990191	
RTBSU-401.075#00	JZ-036.100	UN990176	JZ-036.101	UN990200	JZ-036.110	UN990184		JZ-036.120	UN990192	
RTBSU-401.086#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
RTBSU-401.202#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
RTBSU-401.210#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
RTBSU-401.262#00	JZ-035.100	UN990173	JZ-035.101	UN990197	JZ-035.110	UN990181		JZ-035.120	UN990189	
RTBSU-401.265#00	JZ-037.100	UN990175	JZ-037.101	UN990199	JZ-037.110	UN990183		JZ-037.120	UN990191	

Can be adapted to fit many switch ranges in flush-mounted sockets (for a current overview of the suitable frames and insert frames).

ALRE FLUSH-MOUNTED RANGE (70 X 70 MM COVER SETS)

ALL BASIC TYPES AND SUITABLE COVER SETS **70 X 70 MM**

BASIC TYPE	70x70 mm cover set PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.400)		70x70 mm cover set PEARL WHITE (RAL1013) GLOSSY (JZ-xxx.410)		EURO/ PG	70x70 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.420)		EURO/ PG
	Cover set	Item no.	Cover set	Item no.		Cover set	Item no.	
RTBSU-401.000#00	JZ-001.400	UN990141	JZ-001.410	UN990145		JZ-001.420	UN990149	
RTBSU-401.002#00	JZ-001.400	UN990141	JZ-001.410	UN990145		JZ-001.420	UN990149	
RTBSU-401.010#00	JZ-001.400	UN990141	JZ-001.410	UN990145		JZ-001.420	UN990149	
RTBSU-401.034#00	JZ-016.400	UN990142	JZ-016.410	UN990146		JZ-016.420	UN990150	
RTBSU-401.062#00	JZ-035.400	UN990143	JZ-035.410	UN990147		JZ-035.420	UN990151	
RTBSU-401.065#00	JZ-037.400	UN990144	JZ-037.410	UN990148		JZ-037.420	UN990150	
RTBSU-401.086#00	JZ-001.400	UN990141	JZ-001.410	UN990145		JZ-001.420	UN990149	
RTBSU-401.202#00	JZ-001.400	UN990141	JZ-001.410	UN990145		JZ-001.420	UN990149	
RTBSU-401.210#00	JZ-001.400	UN990141	JZ-001.410	UN990145		JZ-001.420	UN990149	
RTBSU-401.262#00	JZ-035.400	UN990143	JZ-035.410	UN990147		JZ-035.420	UN990151	
RTBSU-401.265#00	JZ-037.400	UN990144	JZ-037.410	UN990148		JZ-037.420	UN990150	

Can be adapted to fit many switch ranges in flush-mounted sockets (for a current overview of the suitable frames and insert frames).



ALL BASIC TYPES AND SUITABLE COVER SETS FOR **BUSCH-JAEGER REFLEX SI/SI LINEAR / BUSCH-DURO 2000 SI/FUTURE/SOLO/AXCENT/CARAT**
WITHOUT INSERT FRAME

BASIC TYPE	BUSCH-JAEGER cover set REFLEX SI/SI LINEAR PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.200/BJ)	BUSCH-JAEGER cover set BUSCH-DURO 2000 SI/SI LINEAR PEARL WHITE (RAL 1013) GLOSSY (JZ-001.210/BJ)	EURO/ PG	BUSCH-JAEGER cover set FUTURE LINEAR/SOLO/ AXCENT/CARAT TRAFFIC/ STUDIO WHITE (RAL 9016) GLOSSY (JZ-001.320/BJ)	EURO/ PG
RTBSU-401.000#00	Cover set Item no.	Cover set Item no.	Cover set Item no.	Cover set Item no.	Cover set Item no.
RTBSU-401.002#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491	JZ-001.320/BJ
RTBSU-401.010#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491	JZ-001.320/BJ
RTBSU-401.062#00	JZ-035.200 / BJ	G9990499	-	-	-
RTBSU-401.086#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491	JZ-001.320/BJ
RTBSU-401.202#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491	JZ-001.320/BJ

Can be adapted to fit the corresponding BUSCH-JAEGER switch ranges in flush-mounted sockets.

SPECIAL COLOURS **ALUMINIUM / ANTHRACITE**

ALRE CON- TROLLER TYPES	MANUFACTURER SWITCH RANGE	COLOUR/ SURFACE FINISH	50X50 MM INSERT FRAME*	ALRE COVER SET: TYPE	(ITEM NO.)	EURO/ PG
RTBSU-401.000#00	BERKER	aluminium/matt	not required	JZ-001.131/BE	(UN990114)	
RTBSU-401.002#00	S.1/B.3/B.7	anthracite/matt	not required	JZ-001.141/BE	(UN990115)	
RTBSU-401.010#00						
RTBSU-401.086#00	BUSCH-JAEGER	aluminium silver/glossy	1746/10-83	JZ-001.030/BJ	(UN990108)	
RTBSU-401.202#00	future linear	anthracite/glossy	1746/10-81	JZ-001.040/BJ	(UN990109)	
RTBSU-401.210#00						
	GIRA System 55	aluminium/matt	not required	JZ-001.131/GI	(UN990110)	
		anthracite/matt	not required	JZ-001.141/GI	(UN990111)	
	JUNG Series A	aluminium/glossy	not required	JZ-001.130/JU	(UN990112)	
		anthracite/matt	not required	JZ-001.141/JU	(UN990113)	
	MERTEN System M	aluminium/matt	not required	JZ-001.131/ME	(UN990116)	
		anthracite/matt	not required	JZ-001.141/ME	(UN990117)	

*) must be ordered from switch manufacturer or electronics wholesaler

Further details and information on available cover sets can be found online at www.alre.de or in the catalogue.



ADAPTATION OF ALRE FLUSH-MOUNTED CONTROLLERS

MANUFACTURER	RANGE	COLOUR RAL 9010 (surface finish)	ADAPTATION possible using '55x55', '70x70' or 'BJ' cover sets (without insert frame)	Only ADAPTATION with '50x50' cover set requires an insert frame from the manufacturer
BERKER	S.1	polar white (matt)	x	1109 19 19
BERKER	S.1	polar white (glossy)	x	1109 90 89
BERKER	Arsys	polar white (glossy)		1108 01 69
BERKER	B.3	aluminium / polar white (matt)	x	1109 19 19
BERKER	B.3	aluminium / polar white (glossy)	x	1109 90 89
BERKER	B.7	glass / polar white (matt)	x	1109 19 19
BERKER	B.7	glass / polar white (glossy)	x	1109 90 89
BERKER	Q.1 / Q.3	polar white (velvet)		1109 60 79
BERKER	K.1	polar white (glossy)		1108 71 09
BUSCH-JAEGER	Reflex SI / SI Linear	alpine white (glossy)	x	1746-214-101
BUSCH-JAEGER	Busch-balance SI	alpine white (glossy)	x	1746-914-101
BUSCH-JAEGER	impuls	alpine white (glossy)		1746/10-74
BUSCH-JAEGER	solo / future linear / axcent / etc.	studio white – see RAL 9016 below		
Elso	Joy	pure white (glossy)	x	363084
Elso	Fashion / Riva / Scala	pure white (glossy)		203084
GIRA	surface switch	pure white (glossy)	x	0282 112
GIRA (System 55)	Standard / E2	pure white (semi-gloss)	x	0282 27
GIRA (System 55)	Standard / E2 / E3	pure white (glossy)	x	0282 03
GIRA (System 55)	E22	pure white (glossy)	x	0282 03
GIRA (System 55)	Event	pure white (semi-gloss) + opaque...	x	0282 27
GIRA (System 55)	Event	pure white (glossy) + opaque...	x	0282 03
GIRA (System 55)	Esprit	pure white (semi-gloss) + glass, aluminium...	x	0282 27
GIRA (System 55)	Esprit	pure white (glossy) + glass, aluminium...	x	0282 03
GIRA	S-Color	pure white (high-gloss)		0282 40
JUNG	CD 500 / CD plus	alpine white (glossy)		CD 590 Z WW
JUNG	A 500 / A 550 / AS 500 / A plus / A flow	alpine white (glossy)	x	A 590 Z WW
JUNG	LS 990	alpine white (glossy)	x	LS 961 Z WW
JUNG	LS plus	alpine white (glass)	x	LS 961 Z WW
JUNG	A creation	alpine white (glossy)	x	A 590 Z WW
JUNG	LS Design	alpine white (glossy)	x	LS 961 Z WW
MERTEN (System M)	M-Smart, M-Plan, M-Pure	polar white (matt)	x	5181 19
MERTEN (System M)	M-Smart, M-Plan, M-Creativ, M-Pure	polar white (glossy)	x	5185 19
MERTEN (System Basis)	1-M / Atelier-M	polar white (glossy)	x	5185 19
MERTEN (Surface System)	Artec / Antik	polar white (glossy)		5160 99
MERTEN	1-M / M-Smart / M-Plan / M-Pure / D-Life	active white – see RAL 9016 below or product finder		
PEHA	Standard	pure white (glossy)		80.670.02 ZV
PEHA	Dialog	pure white (glossy)		95.670.02 ZV
PEHA	Aura	pure white (matt) / glass		20.670.02 ZV
PEHA	Badora	pure white (glossy)		11.670.02 ZV
MANUFACTURER	RANGE	COLOUR RAL 9016 (surface finish)	ADAPTATION possible using '55x55', '70x70' or 'BJ' cover sets (without insert frame)	Only ADAPTATION with '50x50' cover set requires an insert frame from the manufacturer
BUSCH-JAEGER	solo / future linear	studio white (RAL 9016, glossy)	x	1746/10-84
BUSCH-JAEGER	future linear	studio white (RAL 9016 matt)		1746/10-884
BUSCH-JAEGER	impuls	studio white (RAL 9016 matt)		1746/10-774
BUSCH-JAEGER	axcent	studio white (RAL 9016, glossy)	x	1746/10-84
BUSCH-JAEGER	carat (glass, bronze, gold)	studio white (RAL 9016, glossy)	x	1746/10-84
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016, glossy)		1746/10-24G
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016 matt)		1746/10-24
MERTEN	M-Smart, M-Plan, M-Pure	active white (RAL 9016, glossy)	x	5185 25
MERTEN	1-M / Atelier-M	active white (RAL 9016, glossy)	x	5185 25
MERTEN	D-Life	lotus white (RAL 9016)	x	MEG4500-6035
PEHA	Standard	arctic		D 80.670 ZV AW

*) During assembly, you need to remove 4 plastic tabs located at the rear of the frame.

NOTE: Most switch ranges are designed in a colour similar to RAL 1013, 9016 or 1013, although different switch manufacturers use different designations for this colour. Coloured, glass and aluminium frames are also combined with white jacks or plugs so that controllers with white covers can also be integrated into these frames. Check the precise application in each individual case. The frames have different surface qualities (matt/glossy). For design reasons, the cover of the controller should have the same quality as the frame. We accept no liability for slight variations in colour and surface finish or for accuracy of fit. When installing devices into multi frames, always assemble the temperature controllers at the lowermost position.

'50x50 controller': The housing covers of the 50x50 controllers are 50x50 mm in size. Using a 50x50 mm insert frame, they can be integrated into nearly all light switch ranges in accordance with DIN 49075. The 50x50 mm insert frames must be ordered from the light switch manufacturer or from a wholesaler. The order number of the insert frame corresponding to the switch range in question can be found in the column 'Only for adaptation with '50x50' cover set'.

'55x55 / 70x70 controller': The housing covers of the 55x55 / 70x70 controllers are 55x55 / 70x70 mm in size. Many light switch ranges have inner dimensions of 55x55 mm / 70x70 mm. Therefore, the 55x55 / 70x70 controllers can be installed directly in these light switch frames without the use of an insert frame. See the column 'Adaptation with '55x55 / 70x70' cover set' to determine whether the 55x55 / 70x70 controller fits in the given light switch model (x).

All information regarding switch manufacturers' product lines and item numbers was last updated in 12/2022 | No liability is assumed for the information provided. | Technical specifications subject to change.



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BERKER

INTEGRATION EXAMPLES



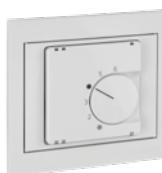
RTBSU – in S. 1



RTBSU – in B. 3



RTBSU – in B. 7



RTBSU – in K. 1



RTBSU – in Arsys

TYPE ALRE	BERKER RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ITEM NO.	INSERT FRAME 50X50*	EURO/ PG
	S. 1/B.3/B.7 S. 1/B.3/B.7 Arsys Q. 1/Q.3 K. 1 S. 1 Arsys S. 1/B.3/B.7 S. 1/B.3/B.7	polar white (RAL 9010) glossy polar white (RAL 9010) matt polar white (RAL 9010) glossy polar white (RAL 9010) velvet polar white (RAL 9010) glossy white (RAL 1013) glossy white (RAL 1013) glossy aluminium/matt anthracite/matt	JZ-001.100 (55x55, glossy) JZ-001.101 (55x55, matt) JZ-001.000 (50x50, glossy) JZ-001.001 (50x50, matt) JZ-001.000 (50x50, glossy) JZ-001.110 (55x55, glossy) JZ-001.010 (50x50, glossy) JZ-001.131/BE JZ-001.141/BE	UN990050 UN990055 UN990035 UN990040 UN990035 UN990060 UN990045 UN990114 UN990115	not required not required 1108 01 69 1109 60 79 1108 71 09 not required 1108 01 02 not required	
	S. 1/B.3/B.7 Arsys K.	polar white (RAL 9010) glossy polar white (RAL 9010) glossy polar white (RAL 9010) glossy	JZ-016.100 (55x55 glossy) JZ-016.000 (50x50 glossy) JZ-016.000 (50x50 glossy)	UN990140 UN990139 UN990139	not required 1108 01 69 1108 71 09	
	S. 1/B.3/B.7 S. 1/B.3/B.7 Arsys Q. 1/Q.3 K. 1 S. 1 Arsys	polar white (RAL 9010) glossy polar white (RAL 9010) matt polar white (RAL 9010) glossy polar white (RAL 9010) velvet polar white (RAL 9010) glossy white (RAL 1013) glossy white (RAL 1013) glossy	JZ-035.100 (55x55 glossy) JZ-035.101 (55x55 matt) JZ-035.000 (50x50 glossy) JZ-035.001 (50x50 matt) JZ-035.000 (50x50 glossy) JZ-035.110 (55x55 glossy) JZ-035.010 (50x50 glossy)	UN990173 UN990197 UN990169 UN990193 UN990169 UN990181 UN990177	not required not required 1108 01 69 1109 60 79 1108 71 09 not required 1108 01 02	
	S. 1/B.3/B.7 S. 1/B.3/B.7 Arsys Q. 1/Q.3 K. 1 S. 1 Arsys	polar white (RAL 9010) glossy polar white (RAL 9010) matt polar white (RAL 9010) glossy polar white (RAL 9010) velvet polar white (RAL 9010) glossy white (RAL 1013) glossy white (RAL 1013) glossy	JZ-038.100 (55x55 glossy) JZ-038.101 (55x55 matt) JZ-038.000 (50x50 glossy) JZ-038.001 (50x50 matt) JZ-038.000 (50x50 glossy) JZ-038.110 (55x55 glossy) JZ-038.010 (50x50 glossy)	UN990174 UN990198 UN990170 UN990194 UN990170 UN990182 UN990178	not required not required 1108 01 69 1109 60 79 1108 71 09 not required 1108 01 02	
	S. 1/B.3/B.7 S. 1/B.3/B.7 Arsys Q. 1/Q.3 K. 1 S. 1 Arsys	polar white (RAL 9010) glossy polar white (RAL 9010) matt polar white (RAL 9010) glossy polar white (RAL 9010) velvet polar white (RAL 9010) glossy white (RAL 1013) glossy white (RAL 1013) glossy	JZ-037.100 (55x55 glossy) JZ-037.101 (55x55 matt) JZ-037.000 (50x50 glossy) JZ-037.001 (50x50, matt) JZ-037.000 (50x50 glossy) JZ-037.110 (55x55 glossy) JZ-037.010 (50x50 glossy)	UN990175 UN990199 UN990171 UN990195 UN990171 UN990183 UN990179	not required not required 1108 01 69 1109 60 79 1108 71 09 not required 1108 01 02	
	S. 1/B.3/B.7 S. 1/B.3/B.7 Arsys Q. 1/Q.3 K. 1 S. 1 Arsys	polar white (RAL 9010) glossy polar white (RAL 9010) matt polar white (RAL 9010) glossy polar white (RAL 9010) velvet polar white (RAL 9010) glossy white (RAL 1013) glossy white (RAL 1013) glossy	JZ-036.100 (55x55 glossy) JZ-036.101 (55x55 matt) JZ-036.000 (50x50 glossy) JZ-036.001 (50x50, matt) JZ-036.000 (50x50 glossy) JZ-036.110 (55x55 glossy) JZ-036.010 (50x50 glossy)	UN990176 UN990200 UN990172 UN990196 UN990172 UN990184 UN990180	not required not required 1108 01 69 1109 60 79 1108 71 09 not required 1108 01 02	

* must be ordered from switch manufacturer or electronics wholesaler



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BUSCH-JAEGER

INTEGRATION EXAMPLES



RTBSU – in Reflex SI RTBSU – in Busch-balance SI RTBSU – in future linear RTBSU – in solo RTBSU – in alpha nea

TYPE ALRE	BERKER RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ITEM NO.	INSERT FRAME 50X50*	EURO/ PG
	Reflex SI / SI Linear	alpine white (RAL 9010) glossy	JZ-001.200 / BJ	G9990490	not required	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-001.100 (55x55, glossy)	UN990050	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-001.000 (50x50, glossy)	UN990035	1746 / 10-74	
	future linear / solo / axcent / carat	studio white (RAL 9016) glossy	JZ-001.320 / BJ	G9990493	not required	
	future linear	studio white (RAL 9016) matt	JZ-001.021 (50x50, matt)	UN990100	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-001.020 (50x50, glossy)	UN990071	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-001.021 (50x50, matt)	UN990100	1746 / 10-24	
	Duro 2000 SI / SI Linear	white (RAL 1013) glossy	JZ-001.210 / BJ	G9990491	not required	
	future linear / solo / carat	ivory white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	1746 / 10-72	
	future linear	aluminium silver/glossy	JZ-001.030 / BJ	UN990108	1746 / 10-83	
	future linear	anthracite/glossy	JZ-001.040 / BJ	UN990109	1746 / 10-81	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-016.100 (55x55 glossy)	UN990140	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-016.000 (50x50 glossy)	UN990139	1746 / 10-74	
	Reflex SIcSI Linear	alpine white (RAL 9010) glossy	JZ-035.200 / BJ	G9990492	not required	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-035.000 (50x50 glossy)	UN990169	1746 / 10-74	
	future linear / solo / axcent / carat	studio white (RAL 9016) glossy	JZ-035.020 (50x50 glossy)	UN990185	1746 / 10-84	
	future linear	studio white (RAL 9016) matt	JZ-035.021 (50x50 matt)	UN990201	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-035.020 (50x50 glossy)	UN990185	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-035.021 (50x50 matt)	UN990201	1746 / 10-24	
	Duro 2000 SI / SI Linear	white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1746-212-101	
	future linear / solo / carat	ivory white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1746 / 10-72	
	Reflex SI / SI Linear	alpine white (RAL 9010) glossy	JZ-038.000 (50x50 glossy)	UN990170	1746-214-101	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-038.100 (55x55 glossy)	UN990174	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-038.000 (50x50 glossy)	UN990170	1746 / 10-74	
	future linear / solo / axcent / carat	studio white (RAL 9016) glossy	JZ-038.020 (50x50 glossy)	UN990186	1746 / 10-84	
	future linear	studio white (RAL 9016) matt	JZ-038.021 (50x50 matt)	UN990202	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-038.020 (50x50 glossy)	UN990186	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-038.021 (50x50 matt)	UN990202	1746 / 10-24	
	Duro 2000 SI / SI Linear	white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	1746-212-101	
	future linear / solo / carat	ivory white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	1746 / 10-72	



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BUSCH-JAEGER

INTEGRATION EXAMPLES


RTBSU – in Reflex SI



RTBSU – in Busch-balance SI



RTBSU – in future linear



RTBSU – in solo



RTBSU – in alpha nea

TYPE ALRE	BUSCH-JAEGER RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ITEM NO.	INSERT FRAME 50X50*	EURO/ PG
 (H/C switch)	RTBSU-401.065#00	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-037.000 (50x50 glossy)	UN990171	1746-214-101
	RTBSU-401.265#00	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-037.100 (55x55 glossy)	UN990175	not required
	impuls	alpine white (RAL 9010) glossy	JZ-037.000 (50x50 glossy)	UN990171	1746 / 10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-037.020 (50x50 glossy)	UN990187	1746 / 10-84	
	future linear	studio white (RAL 9016) matt	JZ-037.021 (50x50 matt)	UN990203	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-037.020 (50x50 glossy)	UN990187	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-037.021 (50x50 matt)	UN990203	1746 / 10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-037.010 (50x50 glossy)	UN990179	1746-212-101	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-037.010 (50x50 glossy)	UN990179	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-037.010 (50x50 glossy)	UN990179	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-037.010 (50x50 glossy)	UN990179	1746 / 10-72	
 (3-way switch, LED)	RTBSU-401.075#00	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-036.000 (50x50 glossy)	UN990172	1746-214-101
		Busch-balance SI	alpine white (RAL 9010) glossy	JZ-036.100 (55x55 glossy)	UN990176	not required
	impuls	alpine white (RAL 9010) glossy	JZ-036.000 (50x50 glossy)	UN990172	1746 / 10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-036.020 (50x50 glossy)	UN990188	1746 / 10-84	
	future linear	studio white (RAL 9016) matt	JZ-036.021 (50x50 matt)	UN990204	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-036.020 (50x50 glossy)	UN990188	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-036.021 (50x50 matt)	UN990204	1746 / 10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-036.010 (50x50 glossy)	UN990180	1746-212-101	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-036.010 (50x50 glossy)	UN990180	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-036.010 (50x50 glossy)	UN990180	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-036.010 (50x50 glossy)	UN990180	1746 / 10-72	

*) must be ordered from switch manufacturer or electronics wholesaler

For BJ future/solo there are also 55x55 insert frames (for use with alre 55x55 cover set) – BJ item no. 1747-84 (studio white) and 1784-82 (ivory white)

Note: Busch-Jaeger central disc cannot be used with alre RTBSU.



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM ELSO

INTEGRATION EXAMPLES



RTBSU – in Joy



RTBSU – in Fashion



RTBSU – in Riva



RTBSU – in Scala

TYPE ALRE	ELSO RANGE	COLOUR (RAL) / SURFACE FINISH	ALRE COVER SET	COVER SET ITEM NO.	INSERT FRAME 50X50*	EURO / PG
RTBSU-401.000#00	Joy	pure white (RAL 9010) glossy	JZ-001.100 (55x55, glossy)	UN990050	not required	
RTBSU-401.002#00	Joy	pearl white (RAL 1013) glossy	JZ-001.110 (55x55, glossy)	UN990060	not required	
RTBSU-401.010#00	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-001.000 (50x50, glossy)	UN990035	203084	
RTBSU-401.086#00	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	203080	
RTBSU-401.202#00						
RTBSU-401.210#00						



Standard (without switch)

RTBSU-401.034#00	Joy	pure white (RAL 9010) glossy	JZ-016.100 (55x55 glossy)	UN990140	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-016.000 (50x50 glossy)	UN990139	203084	



(LED)

RTBSU-401.062#00	Joy	pure white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required	
RTBSU-401.262#00	Joy	pearl white (RAL 1013) glossy	JZ-035.110 (55x55 glossy)	UN990181	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-035.000 (50x50 glossy)	UN990169	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	203080	



(ON / OFF switch, LED)

RTBSU-401.063#00	Joy	pure white (RAL 9010) glossy	JZ-038.100 (55x55 glossy)	UN990174	not required	
	Joy	pearl white (RAL 1013) glossy	JZ-038.110 (55x55 glossy)	UN990182	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-038.000 (50x50 glossy)	UN990170	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	203080	



(Switch H / OFF / C)

RTBSU-401.065#00	Joy	pure white (RAL 9010) glossy	JZ-037.100 (55x55 glossy)	UN990175	not required	
RTBSU-401.265#00	Joy	pearl white (RAL 1013) glossy	JZ-037.110 (55x55 glossy)	UN990183	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-037.000 (50x50 glossy)	UN990171	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-037.010 (50x50 glossy)	UN990179	203080	



(H / C switch)

RTBSU-401.075#00	Joy	pure white (RAL 9010) glossy	JZ-036.100 (55x55 glossy)	UN990176	not required	
	Joy	pearl white (RAL 1013) glossy	JZ-036.110 (55x55 glossy)	UN990184	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-036.000 (50x50 glossy)	UN990172	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-036.010 (50x50 glossy)	UN990180	203080	



(3-way switch, LED)

*) must be ordered from switch manufacturer or electronics wholesaler



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM GIRA

INTEGRATION EXAMPLES



RTBSU – in Standard 55



RTBSU – in E2



RTBSU – in Event



RTBSU – in surface switch



RTBSU – in E22

TYPE ALRE	GIRA RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ITEM NO.	INSERT FRAME 50X50*	EURO/ PG
RTBSU-401.000#00 RTBSU-401.002#00 RTBSU-401.010#00 RTBSU-401.086#00 RTBSU-401.202#00 RTBSU-401.210#00	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) glossy	JZ-001.100 (55x55, glossy)	UN990050	not required	
	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) matt	JZ-001.101 (55x55, matt)	UN990055	not required	
	Surface switch NEW	pure white (RAL 9010) glossy	JZ-001.400 (70x70 glossy)	UN990141	not required	
	Standard 55/Event/Esprit/ClassiX	cream white (RAL 1013) glossy	JZ-001.110 (55x55, glossy)	UN990060	not required	
	System 55	aluminium/matt	JZ-001.131 / GI	UN990110	not required	
	System 55	anthracite/matt	JZ-001.141 / GI	UN990111	not required	
Standard (without switch)						
RTBSU-401.034#00  (LED)	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) glossy	JZ-016.100 (55x55 glossy)	UN990140	not required	
	Surface switch NEW	pure white (RAL 9010) glossy	JZ-016.400 (70x70 glossy)	UN990142	not required	
RTBSU-401.062#00 RTBSU-401.262#00  (ON/OFF switch, LED)	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required	
	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) matt	JZ-035.101 (55x55 matt)	UN990197	not required	
	Surface switch NEW	pure white (RAL 9010) glossy	JZ-035.400 (70x70, glossy)	UN990143	not required	
	Standard 55/Event/Esprit/ClassiX	cream white (RAL 1013) glossy	JZ-035.110 (55x55 glossy)	UN990181	not required	
	System 55	anthracite/matt	JZ-035.141 / GI	UN990205	not required	
RTBSU-401.063#00  (Switch H/Off/C)	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) glossy	JZ-038.100 (55x55 glossy)	UN990174	not required	
	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) matt	JZ-038.101 (55x55 matt)	UN990198	not required	
	surface switch	pure white (RAL 9010) glossy	JZ-038.000 (50x50 glossy)	UN990170	0282 112	
	Standard 55/Event/Esprit/ClassiX	cream white (RAL 1013) glossy	JZ-038.110 (55x55 glossy)	UN990182	not required	
RTBSU-401.065#00 RTBSU-401.265#00  (H/C switch)	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) glossy	JZ-037.100 (55x55 glossy)	UN990175	not required	
	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) matt	JZ-037.101 (55x55 matt)	UN990199	not required	
	Surface switch NEW	pure white (RAL 9010) glossy	JZ-037.400 (70x70 glossy)	UN990144	not required	
	Standard 55/Event/Esprit/ClassiX	cream white (RAL 1013) glossy	JZ-037.110 (55x55 glossy)	UN990183	not required	
RTBSU-401.075#00  (3-way switch, LED)	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) glossy	JZ-036.100 (55x55 glossy)	UN990176	not required	
	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) matt	JZ-036.101 (55x55 matt)	UN990200	not required	
	surface switch	pure white (RAL 9010) glossy	JZ-036.000 (50x50 glossy)	UN990172	0282 40	
	Standard 55/Event/Esprit/ClassiX	cream white (RAL 1013) glossy	JZ-036.110 (55x55 glossy)	UN990184	not required	

*) must be ordered from switch manufacturer or electronics wholesaler

**) for GIRA surface switches, there are also 55x55 insert frames (for the use of alre 55x55 cover set) – GIRA item no. 0289 112 (pure white) and 0289 111 (cream white)



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM JUNG

INTEGRATION EXAMPLES



RTBSU – in AS 500



RTBSU – in A 500



RTBSU – in A plus



RTBSU – in A creation



RTBSU – in LS-design

NEW

TYPE ALRE	JUNG RANGE	COLOUR (RAL) / SURFACE FINISH	ALRE COVER SET	COVER SET ITEM NO.	INSERT FRAME 50X50*	EURO/PG
RTBSU-401.000#00 RTBSU-401.002#00 RTBSU-401.010#00 RTBSU-401.086#00 RTBSU-401.202#00 RTBSU-401.210#00	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy	JZ-001.100 (55x55, glossy) JZ-001.000 (50x50, glossy) JZ-001.400 (70x70 glossy)	UN990050 UN990035 UN990141	not required CD 590 Z WW not required	
	AS 500	white (RAL 1013) glossy	JZ-001.110 (55x55, glossy)	UN990060	not required	
	CD 500/CD plus	white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	590 Z	
	LS 990/LS design/LS plus	white (RAL 1013) glossy	JZ-001.410 (70x70, glossy)	UN990145	not required	
	AS 550/A flow	snow white matt	JZ-001.101 (55x55, matt)	UN990055	not required	
	Series A	aluminium/glossy	JZ-001.130/JU	UN990112	not required	
	Series A	anthracite/matt	JZ-001.141/JU	UN990113	not required	
RTBSU-401.034#00	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy	JZ-016.100 (55x55 glossy) JZ-016.000 (50x50 glossy) JZ-016.400 (70x70 glossy)	UN990140 UN990139 UN990142	not required CD 590 Z WW not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy	JZ-035.100 (55x55 glossy) JZ-035.000 (50x50 glossy) JZ-035.400 (70x70 glossy)	UN990173 UN990169 UN990143	not required CD 590 Z WW not required	
	AS 500	white (RAL 1013) glossy	JZ-035.110 (55x55 glossy)	UN990181	not required	
	CD 500/CD plus	white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	590 Z	
	LS 990/LS design/LS plus	white (RAL 1013) glossy	JZ-035.410 (70x70 glossy)	UN990147	not required	
	AS 550/A flow	snow white matt	JZ-035.101 (55x55 matt)	UN990197	not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy	JZ-038.100 (55x55 glossy) JZ-038.000 (50x50 glossy) JZ-038.000 (50x50 glossy)	UN990174 UN990170 UN990170	not required CD 590 Z WW LS 961 Z WW **	
	AS 500	white (RAL 1013) glossy	JZ-038.110 (55x55 glossy)	UN990182	not required	
	CD 500/CD plus	white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	590 Z	
	LS 990/LS design/LS plus	white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	LS 961 Z **	
	AS 550/A flow	snow white matt	JZ-038.101 (55x55 matt)	UN990198	not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy	JZ-037.100 (55x55 glossy) JZ-037.000 (50x50 glossy) JZ-037.400 (70x70 glossy)	UN990175 UN990171 UN990144	not required CD 590 Z WW not required	
	AS 500	white (RAL 1013) glossy	JZ-037.110 (55x55 glossy)	UN990183	not required	
	CD 500/CD plus LS 990/LS design/LS plus	white (RAL 1013) glossy white (RAL 1013) glossy	JZ-037.010 (50x50 glossy) JZ-037.410 (70x70, glossy)	UN990179 UN990148	590 Z not required	
	AS 550/A flow	snow white matt	JZ-037.101 (55x55 matt)	UN990199	not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy	JZ-036.100 (55x55 glossy) JZ-036.000 (50x50 glossy) JZ-036.000 (50x50 glossy)	UN990176 UN990172 UN990172	not required CD 590 Z WW LS 961 Z WW **	
	AS 500	white (RAL 1013) glossy	JZ-036.110 (55x55 glossy)	UN990184	not required	
	CD 500/CD plus LS 990/LS design/LS plus	white (RAL 1013) glossy white (RAL 1013) glossy	JZ-036.010 (50x50 glossy) JZ-036.010 (50x50 glossy)	UN990180 UN990180	590 Z LS 961 Z **	
	AS 550/A flow	snow white matt	JZ-036.101 (55x55 matt)	UN990200	not required	
RTBSU-401.075#00	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy alpine white (RAL 9010) glossy	JZ-036.100 (55x55 glossy) JZ-036.000 (50x50 glossy) JZ-036.000 (50x50 glossy)	UN990176 UN990172 UN990172	not required CD 590 Z WW LS 961 Z WW **	
	AS 500	white (RAL 1013) glossy	JZ-036.110 (55x55 glossy)	UN990184	not required	
	CD 500/CD plus LS 990/LS design/LS plus	white (RAL 1013) glossy white (RAL 1013) glossy	JZ-036.010 (50x50 glossy) JZ-036.010 (50x50 glossy)	UN990180 UN990180	590 Z LS 961 Z **	
	AS 550/A flow	snow white matt	JZ-036.101 (55x55 matt)	UN990200	not required	

*) must be ordered from switch manufacturer or electronics wholesaler

*** if necessary, the manufacturer JUNG will change the colour of alpine white from RAL 9010 to RAL 9016



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM MERTEN

INTEGRATION EXAMPLES


RTBSU – in 1-M



RTBSU – in M-Smart



RTBSU – in M-Plan



RTBSU – in Artec



RTBSU – in Antik

TYPE ALRE	MERTEN RANGE	COLOUR (RAL) / SURFACE FINISH	ALRE COVER SET COVER SET ITEM NO.	INSERT FRAME 50X50*	EURO/ PG
RTBSU-401.000#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) glossy	JZ-001.100 (55x55, glossy)	UN990050	not required
RTBSU-401.002#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) matt	JZ-001.101 (55x55, matt)	UN990055	not required
RTBSU-401.010#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	active white (RAL 9016) glossy	JZ-001.120 (55x55, glossy)	UN990086	not required
RTBSU-401.086#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	lotus white (RAL 9016) glossy	JZ-001.420 (70x70, glossy)	UN990149	not required
RTBSU-401.202#00	D-Life NEW				
RTBSU-401.210#00	System design: Artec, Antik	polar white (RAL 9010) glossy	JZ-001.000 (50x50, glossy)	UN990035	5160 99
Standard (without switch)	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	white (RAL 1013) glossy	JZ-001.110 (55x55, glossy)	UN990060	not required
	System design: Artec, Antik	white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	5160 94
(LED)	System M	aluminium / matt	JZ-001.131 / ME	UN990116	not required
	System M	anthracite / matt	JZ-001.141 / ME	UN990117	not required
RTBSU-401.034#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) glossy	JZ-016.100 (55x55 glossy)	UN990140	not required
	System design: Artec, Antik	polar white (RAL 9010) glossy	JZ-016.000 (50x50, glossy)	UN990139	5160 99
	D-Life NEW	lotus white (RAL 9016) glossy	JZ-016.420 (70x70, glossy)	UN990150	not required
(ON/OFF switch, LED)	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) matt	JZ-035.101 (55x55 matt)	UN990197	not required
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	active white (RAL 9016) glossy	JZ-035.120 (55x55 glossy)	UN990189	not required
	D-Life NEW	lotus white (RAL 9016) glossy	JZ-035.420 (70x70, glossy)	UN990151	not required
	System design: Artec, Antik	polar white (RAL 9010) glossy	JZ-035.000 (50x50 glossy)	UN990169	5160 99
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	white (RAL 1013) glossy	JZ-035.110 (55x55 glossy)	UN990181	not required
	System design: Artec, Antik	white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	5160 94
RTBSU-401.063#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) glossy	JZ-038.100 (55x55 glossy)	UN990174	not required
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) matt	JZ-038.101 (55x55 matt)	UN990198	not required
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	active white (RAL 9016) glossy	JZ-038.120 (55x55, glossy)	UN990190	not required
	D-Life	lotus white (RAL 9016) glossy	JZ-038.020 (50x50 glossy)	UN990186	MEG4500-6035
	System design: Artec, Antik	polar white (RAL 9010) glossy	JZ-038.000 (50x50 glossy)	UN990170	5160 99
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	white (RAL 1013) glossy	JZ-038.110 (55x55 glossy)	UN990182	not required
	System design: Artec, Antik	white (RAL 1013) glossy	JZ-038.010 (50x50 glossy)	UN990178	5160 94
RTBSU-401.065#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) glossy	JZ-037.100 (55x55 glossy)	UN990175	not required
RTBSU-401.265#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) matt	JZ-037.101 (55x55 matt)	UN990199	not required
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	active white (RAL 9016) glossy	JZ-037.120 (55x55, glossy)	UN990191	not required
	D-Life NEW	lotus white (RAL 9016) glossy	JZ-037.420 (70x70, glossy)	UN990150	not required
	System design: Artec, Antik	polar white (RAL 9010) glossy	JZ-037.000 (50x50 glossy)	UN990171	5160 99
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	white (RAL 1013) glossy	JZ-037.110 (55x55 glossy)	UN990183	not required
	System design: Artec, Antik	white (RAL 1013) glossy	JZ-037.010 (50x50 glossy)	UN990179	5160 94
RTBSU-401.075#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) glossy	JZ-036.100 (55x55 glossy)	UN990176	not required
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) matt	JZ-036.101 (55x55 matt)	UN990200	not required
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	active white (RAL 9016) glossy	JZ-036.120 (55x55, glossy)	UN990192	not required
	D-Life	lotus white (RAL 9016) glossy	JZ-036.020 (50x50 glossy)	UN990188	MEG4500-6035
	System design: Artec, Antik	polar white (RAL 9010) glossy	JZ-036.000 (50x50 glossy)	UN990172	5160 99
	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ	white (RAL 1013) glossy	JZ-036.110 (55x55 glossy)	UN990184	not required
	System design: Artec, Antik	white (RAL 1013) glossy	JZ-036.010 (50x50 glossy)	UN990180	5160 94

*) must be ordered from switch manufacturer or electronics wholesaler
Note: Merten central plates cannot be used with alre FTR.

NOTES



CONTROLLERS FOR ALL SWITCH RANGES

Integration examples in switch ranges with or without insert frame



ADAPTATION EXAMPLE
BERKER (S.1)



ADAPTATION EXAMPLE
JUNG (AS 500)



ADAPTATION EXAMPLE
BUSCH-JAEGER
(REFLEX SI LINEAR)



**ADAPTATION EXAMPLE
BERKER B.3 ALUMINIUM**



**ADAPTATION EXAMPLE
GIRA (SURFACE SWITCH)**



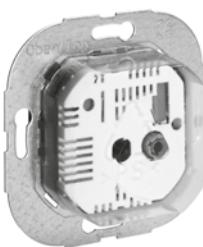
**ADAPTATION EXAMPLE
BERKER (K.1)**



ROOM TEMPERATURE CONTROLLER, MECHANICAL, FTR

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TECHNICAL DATA



Design:	Berlin UP	Control or monitoring of temperatures in closed, dry spaces. Suitable for all heating systems.
Housing material:	PC plastic	
Ambient temperature:	0 ... 30 °C	
Storage temperature:	-20 ... +70 °C	
Permissible atmospheric humidity:	max. 95% rel. humidity, non-condensing	
Electrical connection:	screw-type terminals	
Mounting/attachment:	in flush-mounted socket – with cover set 50x50 mm or 55x55 mm, can be used with almost all switch ranges (deep flush-mounted socket recommended)	Valve actuator: normally closed. If normally open heating valves are available, they should be connected to the cooling output of the changeover switch (toggler), e.g., FTR 101.010.
Protection rating:	IP30	
Protection class:	II, if properly mounted; with 24 VAC, protection class III	Up to a maximum of 10 actuators for valves can be connected (normally closed, NC); with a toggler, on the NO contact, up to 5 units.
Safety and EMC:	according to DIN EN 60730	
Max. power consumption:	< 0.5 W	
Switching element:	bimetallic contact	In terms of visual aesthetics, the basic controllers, in combination with a 55x55 mm cover set, fit perfectly in many switch ranges without an insert frame.
Output signal:	switching	
Sensor:	bimetal	The basic controllers, in combination with a 50x50 mm cover set, fit in nearly all switch ranges with the use of an insert frame.
Control range:	5 ... 30 °C	
Setting range:	5 ... 30 °C	
Hysteresis:	approx. 0.5 K at a temperature change of max. 4 K/h	
General features:	thermal feedback; multi-digit display * ... 6	Other complete devices (#21 types) with alre frame 'Berlin' (neutral), 50x50 mm cover (pure white, like RAL 9010, glossy) upon request.

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
FTR 101.000#00	UA010017	<p>General features: mechanical range limitation; external setting; protective cap; contact hazard protection cover plate; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, for example: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200/BJ future linear, solo, axcent, carat, studio white (RAL 9016), glossy: JZ-001.320/BJ</p>		
FTR 101.000#21	UN010009	like FTR 101.000#00, but with scope of delivery: Controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, FTR

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
FTR 101.002#00	UA010134	<p>General features: ECO function; mechanical range limitation; external setting; protective cap; contact hazard protection cover plate; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: heating</p> <p>Input temperature reduction: approx. 4 K (230 VAC, 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, for example: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200/BJ future linear, solo, axcent, carat, studio white (RAL 9016), glossy; JZ-001.320/BJ</p>		
FTR 101.010#00	UA010222	<p>General features: ECO function; mechanical range limitation; external setting; protective cap; contact hazard protection cover plate; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: heating terminal 10 (4) A, cooling terminal 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: heating terminal: 2300 W, cooling terminal: 1150 W</p> <p>Switching contact: Changeover switch (toggler, max. 10 actuators output heating, max. 5 actuators output cooling)</p> <p>Control function: heating or cooling</p> <p>Input temperature reduction: approx. 4 K (230 VAC, 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, for example: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200/BJ future linear, solo, axcent, carat, studio white (RAL 9016), glossy; JZ-001.320/BJ</p>		
FTR 101.034#07	UA012404	<p>General features: 'heating' display; mechanical range limitation; external setting; contact hazard protection cover plate</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: heating</p> <p>Scope of delivery: controller, cover 50x50 mm, pure white (like RAL 9010), glossy</p>		
FTR 101.034#55	UA012405	like FTR 101.034#07 but with 55x55 mm cover		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, FTR

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
FTR 101.052#21	UA010702	<p>General features: 'Auxiliary heating' display; mechanical range limitation; auxiliary heating switch; external setting</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: the total current (heating + auxiliary heating) may not exceed 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: the total power output (heating + auxiliary heating) may not exceed 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Scope of delivery: controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy</p>		
FTR 101.062#00	UA010811	<p>General features: ECO function; 'heating' display; mechanical range limitation; on / off switch; external setting; protective cap; contact hazard protection cover plate; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Input 'temperature reduction': Approx. 4 K (230 VAC, 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-002.xxx, e.g.:</p> <p>cover set 50x50 mm, pure white, glossy: JZ-002.000</p> <p>cover set 55x55 mm, pure white, glossy: JZ-002.100</p> <p>BUSCH-JAEGER cover set</p> <p>Reflex SI/SI Linear, pure white, glossy: JZ-002.200/BJ (only for FTR)</p>		
FTR 101.063#00	UA011000	<p>General features: climate controller for 2-pipe systems, mechanical range limitation; heating / off / cooling switch; external setting; protective cap; contact hazard protection cover plate</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 1150 W</p> <p>Switching contact: changeover switch (max. 5 actuators)</p> <p>Control function: Heating or cooling</p> <p>For cover sets see the separate overview 'alre flush-mounted range (cover sets)', not included in the delivery.</p> <p>Suitable set no.: JZ-012.xxx, for example:</p> <p>50x50 mm cover set, pure white, glossy: JZ-012.000</p> <p>cover set 55x55 mm, pure white, glossy: JZ-012.100</p>		
FTR 101.065#00	UA010910	<p>General features: climate controller for 2-pipe systems, especially heat pumps; mechanical range limitation; heating / cooling switch; external setting; protective cap; contact hazard protection cover plate</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 5 (2) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 1150 W</p> <p>Switching contact: Changeover switch (toggler, max. 5 actuators)</p> <p>Control function: Heating or cooling</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-004.xxx, e.g.:</p> <p>cover set 50x50 mm, pure white, glossy: JZ-004.000</p> <p>cover set 55x55 mm, pure white, glossy: JZ-004.100</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, FTR

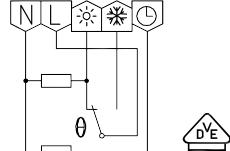
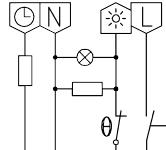
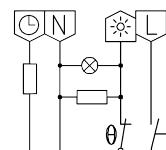
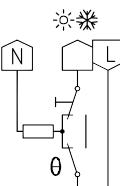
FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
FTR 101.075#00	UA010415	<p>General features: ECO function; 'reduction' display; mechanical range limitation; switch for reduction/heating/reduction via external timer; external setting; protective cap; contact hazard protection cover plate; VDE-tested</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: heating</p> <p>Input temperature reduction: approx. 4 K (230 VAC, 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-003.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-003.000 cover set 55x55 mm, pure white, glossy: JZ-003.100</p>		
FTR 101.086#00	UA010615	<p>General features: mechanical range limitation; 3000 W switching power, for electric direct heating systems, natural stone heating; external setting; protective cap; contact hazard protection cover plate</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 13 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 3000 W</p> <p>Switching contact: NC contact</p> <p>Control function: Heating</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, for example: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200/BJ future linear, solo, axcent, carat, studio white (RAL 9016), glossy; JZ-001.320/BJ</p>		
FTR 101.086#21	UN010607	like FTR 101.086#00, but with scope of delivery: Controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy		
FTR 101.202#00	UA012008	<p>General features: ECO function; mechanical range limitation; external setting; protective cap; contact hazard protection cover plate</p> <p>Operating voltage: 24 VAC/50 Hz, 24 VDC</p> <p>Max. switching current: 1 (1) A</p> <p>Max. switching voltage: 24 VAC/50 Hz, 24 VDC</p> <p>Max. switching voltage: 24 VAC/50 Hz, 24 VDC</p> <p>Switching power: 24 W</p> <p>Switching contact: NC contact (max. 5 actuators)</p> <p>Control function: Heating</p> <p>input temperature setback: approx. 4 K (24 VAC/50 Hz, 24 VDC)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, for example: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200/BJ future linear, solo, axcent, carat, studio white (RAL 9016), glossy; JZ-001.320/BJ</p>		
FTR 101.202#21	UN102009	like FTR 101.202#00, but with scope of delivery: Controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, FTR

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
	UA012301	<p>General features: ECO function; mechanical range limitation; external setting; protective cap; contact hazard protection cover plate</p> <p>Operating voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Max. switching current: 1 (1) A</p> <p>Max. switching voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Min. switching voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Switching power: 24 W</p> <p>Switching contact: Changeover switch (toggler, max. 5 actuators)</p> <p>Control function: heating or cooling</p> <p>Input temperature reduction: Approx. 4 K (24 VAC / 50 Hz, 24 VDC)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-001.xxx, for example: cover set 50x50 mm, pure white, glossy: JZ-001.000 cover set 55x55 mm, pure white, glossy: JZ-001.100</p> <p>BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-001.200 / BJ future linear, solo, axcent, carat, studio white (RAL 9016), glossy; JZ-001.320 / BJ</p>		DVE
	UA012500	<p>General features: ECO function; 'heating' display; mechanical range limitation; on/off switch; external setting; protective cap; contact hazard protection cover plate</p> <p>Operating voltage: 24 VAC/50 Hz</p> <p>Max. switching current: 1 (1) A</p> <p>Max. switching voltage: 24 VAC / 50 Hz</p> <p>Min. switching voltage: 24 VAC / 50 Hz</p> <p>Switching power: 24 W</p> <p>Switching contact: NC contact (max. 5 actuators)</p> <p>Control function: heating</p> <p>Input temperature reduction: approx. 4 K (24 VAC / 50 Hz)</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-002.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-002.000 cover set 55x55 mm, pure white, glossy: JZ-002.100</p> <p>BUSCH-JAEGER cover set Reflex SI/SI Linear, pure white, glossy: JZ-002.200 / BJ (only for FTR)</p>		
	UA012501	like FTR 101.262#00, but with scope of delivery: Controller, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy		
	UA012600	<p>General features: Climate controller for 2-pipe systems, especially heat pumps; mechanical range limitation; heating/cooling switch; external setting; protection cap; contact hazard protection cover plate</p> <p>Operating voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Max. switching current: 1 (1) A</p> <p>Max. switching voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Max. switching voltage: 24 VAC / 50 Hz, 24 VDC</p> <p>Switching power: 24 W</p> <p>Switching contact: Changeover switch (toggler, max. 5 actuators)</p> <p>Control function: Heating or cooling</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-004.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-004.000 cover set 55x55 mm, pure white, glossy: JZ-004.100</p>		



ROOM TEMPERATURE CONTROLLER, MECHANICAL, FTR

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

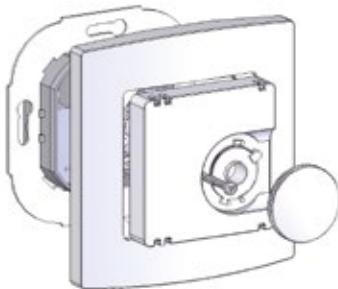
TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
	UA013000	<p>General features: ECO function; internal setting; contact hazard protection cover plate</p> <p>Operating voltage: 230 VAC, 50 Hz</p> <p>Max. switching current: 10 (4) A</p> <p>Max. switching voltage: 230 VAC, 50 Hz</p> <p>Min. switching voltage: 230 VAC, 50 Hz</p> <p>Switching power: 2300 W</p> <p>Switching contact: NC contact (max. 10 actuators)</p> <p>Control function: Heating</p> <p>Input ‘temperature reduction’: Approx. 4 K (230 VAC, 50 Hz)</p> <p>Scope of delivery: controller, cover 50x50 mm, pure white (like RAL 9010), glossy</p>		

Accessories: terminal strips VOxx, suitable valve actuators ZBOOA, suitable cover sets: see separate overview 'alre flush-mounting range (cover sets)'

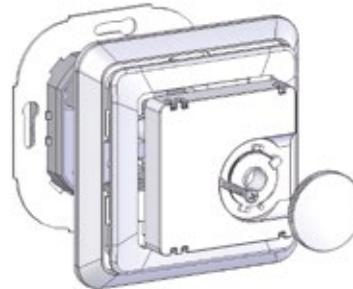
TYPE/IMAGE	ITEM NO.	FEATURES	EURO/PG
	VV000025	<p>General features: alre frame 'Berlin' (neutral) for all flush-mounted controllers with cover 50x50 mm</p> <p>Design: Berlin</p> <p>Surface finish: Glossy</p> <p>Colour: Pure white, like RAL 9010</p> <p>Material: PC plastic</p>	
	VV000048	Features: like JZ-090.900, but for all flush-mounted controllers with 55x55 mm cover	
JZ-090.910	VV000010	as for JZ-090.900, but colour similar to RAL 1013	

ILLUSTRATIONS

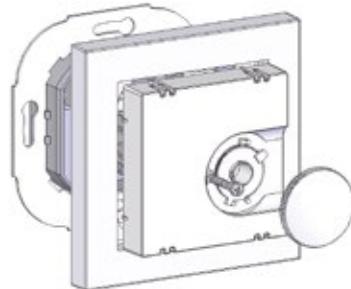
alre frame 'Berlin' (#21 types)



with 50x50 insert frame

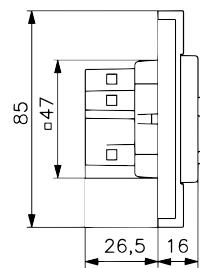
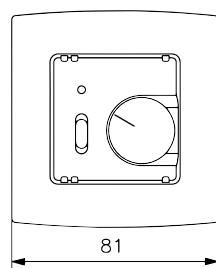


without 55x55 insert frame

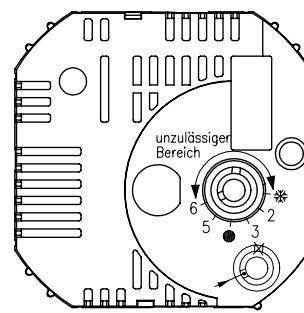


ILLUSTRATIONS

FTR with alre frame 'Berlin' (FTR 101.xxx#21 types)



FTR 101.902#07 contact hazard protection cap with setting range (internal setting)





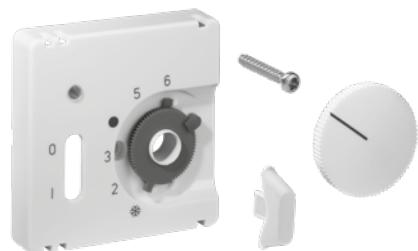
ALRE FLUSH-MOUNTED RANGE (50 X 50 MM COVER SETS)

ALL BASIC TYPES AND SUITABLE COVER SETS **50 X 50 MM**

BASIC TYPE	50x50 mm cover set PURE WHITE (RAL 9010) GLOSSY	50x50 mm cover set PURE WHITE (RAL 9010) MATT		50x50 mm cover set PEARL WHITE (RAL1013) GLOSSY		EURO/ PG
	Cover set	Item no.	Cover set	Item no.	Cover set	Item no.
FTR 101.000#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045
FTR 101.002#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045
FTR 101.010#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045
FTR 101.062#00	JZ-002.000	UN990036	JZ-002.001	UN990041	JZ-002.010	UN990046
FTR 101.063#00	JZ-012.000	UN990107	JZ-012.001	UN990132	JZ-012.010	UN990133
FTR 101.065#00	JZ-004.000	UN990037	JZ-004.001	UN990042	JZ-004.010	UN990047
FTR 101.075#00	JZ-003.000	UN990038	JZ-003.001	UN990043	JZ-003.010	UN990048
FTR 101.086#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045
FTR 101.202#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045
FTR 101.210#00	JZ-001.000	UN990035	JZ-001.001	UN990040	JZ-001.010	UN990045
FTR 101.262#00	JZ-002.000	UN990036	JZ-002.001	UN990041	JZ-002.010	UN990046
FTR 101.265#00	JZ-004.000	UN990037	JZ-004.001	UN990042	JZ-004.010	UN990047

In flush-mounted socket, it can be adapted to fit virtually any switch range.

BASIC TYPE	50x50 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.020)	50x50 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) MATT (JZ-xxx.021)		EURO/ PG
	Cover set	Item no.	Cover set	Item no.
FTR 101.000#00	JZ-001.020	UN990071	JZ-001.021	UN990100
FTR 101.002#00	JZ-001.020	UN990071	JZ-001.021	UN990100
FTR 101.010#00	JZ-001.020	UN990071	JZ-001.021	UN990100
FTR 101.062#00	JZ-002.020	UN990072	JZ-002.021	UN990101
FTR 101.063#00	JZ-012.020	UN990134	JZ-012.021	UN990135
FTR 101.065#00	JZ-004.020	UN990073	JZ-004.021	UN990103
FTR 101.075#00	JZ-003.020	UN990074	JZ-003.021	UN990102
FTR 101.086#00	JZ-001.020	UN990071	JZ-001.021	UN990100
FTR 101.202#00	JZ-001.020	UN990071	JZ-001.021	UN990100
FTR 101.210#00	JZ-001.020	UN990071	JZ-001.021	UN990100
FTR 101.262#00	JZ-002.020	UN990072	JZ-002.021	UN990101
FTR 101.265#00	JZ-004.020	UN990073	JZ-004.021	UN990103



SEE THE PRODUCT FINDER FOR ALL COVER SOLUTIONS AND SPECIAL COLOURS



ALRE FLUSH-MOUNTED RANGE (55 X 55 MM COVER SETS)

ALL BASIC TYPES AND SUITABLE COVER SETS **55 X 55 MM**

BASIC TYPE	55x55 mm cover set PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.100)	55x55 mm cover set PURE WHITE (RAL 9010) MATT (JZ-xxx.101)	Design 55x55 mm PEARL WHITE (RAL1013) GLOSSY (JZ-xxx.110)	EURO/ PG	Cover set 55x55 mm TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.120)	EURO/ PG				
FTR 101.000#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
FTR 101.002#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
FTR 101.010#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
FTR 101.062#00	JZ-002.100	UN990051	JZ-002.101	UN990056	JZ-002.110	UN990061		JZ-002.120	UN990088	
FTR 101.063#00	JZ-012.100	UN990123	JZ-012.101	UN990136	JZ-012.110	UN990137		JZ-012.120	UN990138	
FTR 101.065#00	JZ-004.100	UN990052	JZ-004.101	UN990057	JZ-004.110	UN990062		JZ-004.120	UN990089	
FTR 101.075#00	JZ-003.100	UN990053	JZ-003.101	UN990058	JZ-003.110	UN990063		JZ-003.120	UN990090	
FTR 101.086#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
FTR 101.202#00	JZ-001.100	UN990050	JZ-001.101	UN990055	JZ-001.110	UN990060		JZ-001.120	UN990086	
FTR 101.262#00	JZ-002.100	UN990051	JZ-002.101	UN990056	JZ-002.110	UN990061		JZ-002.120	UN990088	
FTR 101.265#00	JZ-004.100	UN990052	JZ-004.101	UN990057	JZ-004.110	UN990062		JZ-004.120	UN990089	

Can be adapted to fit many switch ranges in flush-mounted sockets (for a current overview of the suitable frames and insert frames).

ALL BASIC TYPES AND SUITABLE COVER SETS FOR **BUSCH-JAEGER REFLEX SI / SI LINEAR / BUSCH-DURO 2000 SI / FUTURE / SOLO / AXCENT / CARAT** WITHOUT INSERT FRAME

BASIC TYPE	BUSCH-JAEGER cover set REFLEX SI/SI LINEAR PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.200/BJ)	BUSCH-JAEGER cover set BUSCH-DURO 2000 SI/SI LINEAR PEARL WHITE (RAL 1013) GLOSSY (JZ-001.210/BJ)	EURO/ PG	BUSCH-JAEGER cover set FUTURE LINEAR/SOLO/AXCENT/CARAT TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-001.320/BJ)	EURO/ PG			
FTR 101.000#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491		JZ-001.320/BJ	G9990493	
FTR 101.002#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491		JZ-001.320/BJ	G9990493	
FTR 101.010#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491		JZ-001.320/BJ	G9990493	
FTR 101.062#00	JZ-002.200/BJ	G9990492	-	-		-	-	
FTR 101.086#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491		JZ-001.320/BJ	G9990493	
FTR 101.202#00	JZ-001.200/BJ	G9990490	JZ-001.210/BJ	G9990491		JZ-001.320/BJ	G9990493	

Can be adapted to fit the corresponding BUSCH-JAEGER switch ranges in flush-mounted sockets.

SPECIAL COLOURS **ALUMINIUM / ANTHRACITE**

ALRE CONTROLLER TYPES	MANUFACTURER SWITCH RANGE	COLOUR/ SURFACE FINISH	50X50 MM INSERT FRAME*	ALRE COVER SET: TYPE	(ITEM NO.)	EURO/ PG
FTR 101.000#00	BERKER S.1/B.3/B.7	aluminium / matt	not required	JZ-001.131/BE	(UN990114)	
FTR 101.002#00		anthracite / matt	not required	JZ-001.141/BE	(UN990115)	
FTR 101.010#00						
FTR 101.086#00	BUSCH-JAEGER future linear	aluminium silver / glossy	1746/10-83	JZ-001.030/BJ	(UN990108)	
FTR 101.202#00		anthracite / glossy	1746/10-81	JZ-001.040/BJ	(UN990109)	
FTR 101.210#00						
	GIRA System 55	aluminium / matt	not required	JZ-001.131/GI	(UN990110)	
		anthracite / matt	not required	JZ-001.141/GI	(UN990111)	
	JUNG Series A	aluminium / glossy	not required	JZ-001.130/JU	(UN990112)	
		anthracite / matt	not required	JZ-001.141/JU	(UN990113)	
	MERTEN System M	aluminium / matt	not required	JZ-001.131/ME	(UN990116)	
		anthracite / matt	not required	JZ-001.141/ME	(UN990117)	

*) must be ordered from switch manufacturer or electronics wholesaler
Further details and information on available cover sets can be found online at www.alre.de or in the catalogue.

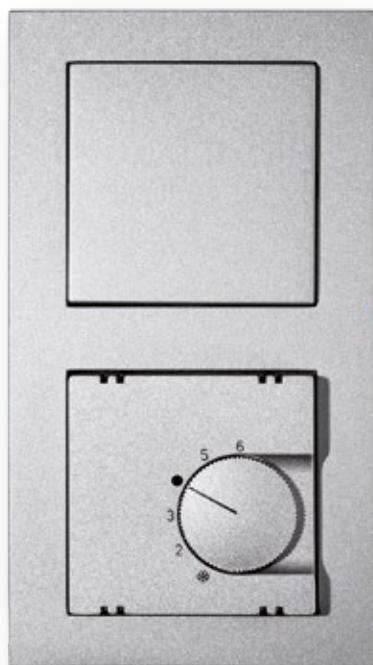
CONTROLLERS FOR ALL SWITCH RANGES

Integration examples in switch ranges with or without insert frame



ADAPTATION EXAMPLES
BERKER

ADAPTATION EXAMPLES
BUSCH-JAEGER



ADAPTATION EXAMPLES
GIRA

ADAPTATION EXAMPLES
JUNG

ADAPTATION EXAMPLES
MERTEN



ADAPTATION OF ALRE FLUSH-MOUNTED CONTROLLERS

MANUFACTURER	RANGE	COLOUR RAL 9010 (surface finish)	ADAPTATION using 55x55 or BJ cover sets possible (without insert frame)	Only ADAPTATION with '50x50' cover set requires an insert frame from the manufacturer
BERKER	S.1	polar white (matt)	x	1109 19 19
BERKER	S.1	polar white (glossy)	x	1109 90 89
BERKER	Arsys	polar white (glossy)		1108 01 69
BERKER	B.3	aluminium / polar white (matt)	x	1109 19 19
BERKER	B.3	aluminium / polar white (glossy)	x	1109 90 89
BERKER	B.7	glass / polar white (matt)	x	1109 19 19
BERKER	B.7	glass / polar white (glossy)	x	1109 90 89
BERKER	Q.1 / Q.3	polar white (velvet)		1109 60 79
BERKER	K.1	polar white (glossy)		1108 71 09
BUSCH-JAEGER	Reflex SI / SI Linear	alpine white (glossy)	x	1746-214-101
BUSCH-JAEGER	Busch-balance SI	alpine white (glossy)	x	1746-914-101
BUSCH-JAEGER	impuls	alpine white (glossy)		1746/10-74
BUSCH-JAEGER	solo / future linear / axcent / etc.	studio white – see RAL 9016 below		
Elso	Joy	pure white (glossy)	x	363084
Elso	Fashion / Riva / Scala	pure white (glossy)		203084
GIRA	surface switch	pure white (glossy)		0282 112
GIRA (System 55)	Standard / E2	pure white (semi-gloss)	x	0282 27
GIRA (System 55)	Standard / E2 / E3	pure white (glossy)	x	0282 03
GIRA (System 55)	E22	pure white (glossy)	x	0282 03
GIRA (System 55)	Event	pure white (semi-gloss) + opaque...	x	0282 27
GIRA (System 55)	Event	pure white (glossy) + opaque...	x	0282 03
GIRA (System 55)	Esprit	pure white (semi-gloss) + glass, aluminium...	x	0282 27
GIRA (System 55)	Esprit	pure white (glossy) + glass, aluminium...	x	0282 03
GIRA	S-Color	pure white (high-gloss)		0282 40
JUNG	CD 500 / CD plus	alpine white (glossy)		CD 590 Z WW
JUNG	A 500 / A 550 / AS 500 / A plus / A flow	alpine white (glossy)	x	A 590 Z WW
JUNG	AS 550 / A flow	snow white matt	x	A 590 Z WWM
JUNG	LS 990	alpine white (glossy)		LS 961 Z WW
JUNG	LS plus	alpine white (glass)		LS 961 Z WW
JUNG	A creation	alpine white (glossy)	x	A 590 Z WW
JUNG	LS Design	alpine white (glossy)		LS 961 Z WW
MERTEN (System M)	M-Smart, M-Plan, M-Pure	polar white (matt)	x	5181 19
MERTEN (System M)	M-Smart, M-Plan, M-Creativ, M-Pure	polar white (glossy)	x	5185 19
MERTEN (System Basis)	1-M / Atelier-M	polar white (glossy)	x	5185 19
MERTEN (Surface System)	Artec / Antik	polar white (glossy)		5160 99
MERTEN	1-M / M-Smart / M-Plan / M-Pure / D-Life	active white – see RAL 9016 below or product finder		
PEHA	Standard	pure white (glossy)		80.670.02 ZV
PEHA	Dialog	pure white (glossy)		95.670.02 ZV
PEHA	Aura	pure white (matt) / glass		20.670.02 ZV
PEHA	Badora	pure white (glossy)		11.670.02 ZV
MANUFACTURER	RANGE	COLOUR RAL 9016 (surface finish)	ADAPTATION using 55x55 or BJ cover sets possible (without insert frame)	Only ADAPTATION with '50x50' cover set requires an insert frame from the manufacturer
BUSCH-JAEGER	solo / future linear	studio white (RAL 9016, glossy)	x	1746/10-84
BUSCH-JAEGER	future linear	studio white (RAL 9016 matt)		1746/10-884
BUSCH-JAEGER	impuls	studio white (RAL 9016 matt)		1746/10-774
BUSCH-JAEGER	axcent	studio white (RAL 9016, glossy)	x	1746/10-84
BUSCH-JAEGER	carat (glass, bronze, gold)	studio white (RAL 9016, glossy)	x	1746/10-84
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016, glossy)		1746/10-24G
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016 matt)		1746/10-24
MERTEN	M-Smart, M-Plan, M-Pure	active white (RAL 9016, glossy)	x	5185 25
MERTEN	1-M / Atelier-M	active white (RAL 9016, glossy)	x	5185 25
MERTEN	D-Life	lotus white (RAL 9016)		MEG4500-6035
PEHA	Standard	arctic		D 80.670 ZV AW

*) During assembly, you need to remove 4 plastic tabs located at the rear of the frame

NOTE: Most switch ranges are designed in a colour similar to RAL 1013, 9016 or 1013, although different switch manufacturers use different designations for this colour. Coloured, glass and aluminium frames are also combined with white jacks or plugs so that controllers with white covers can also be integrated into these frames. Check the precise application in each individual case. The frames have different surface qualities (matt/glossy). For design reasons, the cover of the controller should have the same quality as the frame. We accept no liability for slight variations in colour and surface finish or for accuracy of fit. When installing devices into multi frames, always assemble the temperature controllers at the lowermost position.

'50x50 controller': The housing covers of the 50x50 controllers are 50x50 mm in size. Using a 50x50 mm insert frame, they can be integrated into nearly all light switch ranges in accordance with DIN 49075. The 50x50 mm insert frames must be ordered from the light switch manufacturer or from a wholesaler. The order number of the insert frame corresponding to the switch range in question can be found in the column "Only for adaptation with '50x50' cover set".

'55x55 controller': The housing covers of the 55x55 controllers are 55x55 mm in size. Many light switch ranges have inner dimensions of 55x55 mm. Therefore, the 55x55 controllers can be installed directly in the light switch frame without the use of an insert frame. See the column 'Adaptation with 55x55 cover set' to determine whether the 55x55 controller fits in the given light switch model (x).

All information regarding switch manufacturers' product lines and item numbers was last updated in 12/2022 | No liability is assumed for the information provided. | Technical specifications subject to change.



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BERKER

INTEGRATION EXAMPLES



FTR - in S. 1



FTR - in B. 3



FTR - in B. 7



FTR - in K. 1



FTR - in Arsys

TYPE ALRE	BERKER RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
	FTR 101.000#00	S. 1/B. 3/B. 7	polar white (RAL 9010) glossy	JZ-001.100 (55x55, glossy)	UN990050	not required
	FTR 101.002#00	S. 1/B. 3/B. 7	polar white (RAL 9010) matt	JZ-001.101 (55x55, matt)	UN990055	not required
	FTR 101.010#00	Arsys	polar white (RAL 9010) glossy	JZ-001.000 (50x50, glossy)	UN990035	1108 01 69
	FTR 101.086#00	Q. 1/Q. 3	polar white (RAL 9010) velvet	JZ-001.001 (50x50, matt)	UN990040	1109 60 79
	FTR 101.202#00	K. 1	polar white (RAL 9010) glossy	JZ-001.000 (50x50, glossy)	UN990035	1108 71 09
	FTR 101.210#00	S. 1	white (RAL 1013) glossy	JZ-001.110 (55x55, glossy)	UN990060	not required
		Arsys	white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	1108 01 02
		S. 1/B. 3/B. 7	aluminium/matt	JZ-001.131 /BE	UN990114	not required
		S. 1/B. 3/B. 7	anthracite/matt	JZ-001.141 /BE	UN990115	not required
	FTR 101.062#00	S. 1/B. 3/B. 7	polar white (RAL 9010) glossy	JZ-002.100 (55x55, glossy)	UN990051	not required
	FTR 101.262#00	S. 1/B. 3/B. 7	polar white (RAL 9010) matt	JZ-002.101 (55x55, matt)	UN990056	not required
		Arsys	polar white (RAL 9010) glossy	JZ-002.000 (50x50, glossy)	UN990036	1108 01 69
		Q. 1/Q. 3	polar white (RAL 9010) velvet	JZ-002.001 (50x50, matt)	UN990041	1109 60 79
		K. 1	polar white (RAL 9010) glossy	JZ-002.000 (50x50, glossy)	UN990036	1108 71 09
		S. 1	white (RAL 1013) glossy	JZ-002.110 (55x55, glossy)	UN990061	not required
		Arsys	white (RAL 1013) glossy	JZ-002.010 (50x50, glossy)	UN990046	1108 01 02
	FTR 101.063#00	S. 1/B. 3/B. 7	polar white (RAL 9010) glossy	JZ-012.100 (55x55 glossy)	UN990123	not required
		S. 1/B. 3/B. 7	polar white (RAL 9010) matt	JZ-012.101 (55x55 matt)	UN990136	not required
		Arsys	polar white (RAL 9010) glossy	JZ-012.000 (50x50 glossy)	UN990107	1108 01 69
		Q. 1/Q. 3	polar white (RAL 9010) velvet	JZ-012.001 (50x50 matt)	UN990132	1109 60 79
		K. 1	polar white (RAL 9010) glossy	JZ-012.000 (50x50 glossy)	UN990107	1108 71 09
		S. 1	white (RAL 1013) glossy	JZ-012.110 (55x55 glossy)	UN990137	not required
		Arsys	white (RAL 1013) glossy	JZ-012.010 (50x50 glossy)	UN990133	1108 01 02
	FTR 101.065#00	S. 1/B. 3/B. 7	polar white (RAL 9010) glossy	JZ-004.100 (55x55, glossy)	UN990052	not required
	FTR 101.265#00	S. 1/B. 3/B. 7	polar white (RAL 9010) matt	JZ-004.101 (55x55, matt)	UN990057	not required
		Arsys	polar white (RAL 9010) glossy	JZ-004.000 (50x50, glossy)	UN990037	1108 01 69
		Q. 1/Q. 3	polar white (RAL 9010) velvet	JZ-004.001 (50x50, matt)	UN990042	1109 60 79
		K. 1	polar white (RAL 9010) glossy	JZ-004.000 (50x50, glossy)	UN990037	1108 71 09
		S. 1	white (RAL 1013) glossy	JZ-004.110 (55x55, glossy)	UN990062	not required
		Arsys	white (RAL 1013) glossy	JZ-004.010 (50x50, glossy)	UN990047	1108 01 02
	FTR 101.075#00	S. 1/B. 3/B. 7	polar white (RAL 9010) glossy	JZ-003.100 (55x55, glossy)	UN990053	not required
		S. 1/B. 3/B. 7	polar white (RAL 9010) matt	JZ-003.101 (55x55, matt)	UN990058	not required
		Arsys	polar white (RAL 9010) glossy	JZ-003.000 (50x50, glossy)	UN990038	1108 01 69
		Q. 1/Q. 3	polar white (RAL 9010) velvet	JZ-003.001 (50x50, matt)	UN990043	1109 60 79
		K. 1	polar white (RAL 9010) glossy	JZ-003.000 (50x50, glossy)	UN990038	1108 71 09
		S. 1	white (RAL 1013) glossy	JZ-003.110 (55x55, glossy)	UN990063	not required
		Arsys	white (RAL 1013) glossy	JZ-003.010 (50x50, glossy)	UN990048	1108 01 02

*) must be ordered from switch manufacturer or electronics wholesaler

PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BUSCH-JAEGER

INTEGRATION EXAMPLES



FTR – in Reflex S



FTR – in Busch-balance S



FTR – in future linear



FTR – in solo



FTR – in alpha nea

Type Alre	Berker Range	Colour (RAL)/Surface Finish	Alre Cover Set	Cover Set Art. No.	Insert Frame 50x50*	Euro/PG
 Standard (without switch)	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-001.200 / BJ	G9990490	not required	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-001.100 (55x55, glossy)	UN990050	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-001.000 (50x50, glossy)	UN990035	1746 / 10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-001.320 / BJ	G9990493	not required	
	future linear	studio white (RAL 9016) matt	JZ-001.021 (50x50, matt)	UN990100	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-001.020 (50x50, glossy)	UN990071	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-001.021 (50x50, matt)	UN990100	1746 / 10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-001.210 / BJ	G9990491	not required	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	1746 / 10-72	
 (ON/OFF switch, LED)	future linear	aluminium silver/glossy	JZ-001.030 / BJ	UN990108	1746 / 10-83	
	future linear	anthracite/glossy	JZ-001.040 / BJ	UN990109	1746 / 10-81	
	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-002.200 / BJ	G990492	not required	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-002.100 (55x55, glossy)	UN990051	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-002.000 (50x50, glossy)	UN990036	1746 / 10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-002.020 (50x50, glossy)	UN990072	1746 / 10-84	
	future linear	studio white (RAL 9016) matt	JZ-002.021 (50x50, matt)	UN990101	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-002.020 (50x50, glossy)	UN990072	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-002.021 (50x50, matt)	UN990101	1746 / 10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-002.010 (50x50, glossy)	UN990046	1746-212-101	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-002.010 (50x50, glossy)	UN990046	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-002.010 (50x50, glossy)	UN990046	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-002.010 (50x50, glossy)	UN990046	1746 / 10-72	
 (Switch H/OFF/C)	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-012.000 (50x50 glossy)	UN990107	1746-214-101	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-012.100 (55x55 glossy)	UN990123	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-012.000 (50x50 glossy)	UN990107	1746 / 10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-012.020 (50x50 glossy)	UN990134	1746 / 10-84	
	future linear	studio white (RAL 9016) matt	JZ-012.021 (50x50 matt)	UN990135	1746 / 10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-012.020 (50x50 glossy)	UN990134	1746 / 10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-012.021 (50x50 matt)	UN990135	1746 / 10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-012.010 (50x50 glossy)	UN990133	1746-212-101	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-012.010 (50x50 glossy)	UN990133	1746 / 10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-012.010 (50x50 glossy)	UN990133	1746 / 10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-012.010 (50x50 glossy)	UN990133	1746 / 10-72	



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BUSCH-JAEGER

INTEGRATION EXAMPLES


FTR - in Reflex SI



FTR - in Busch-balance SI



FTR - in future linear



FTR - in solo



FTR - in alpha nea

TYPE ALRE	BUSCH-JAEGER RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
 (H/C switch)	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-004.000 (50x50, glossy)	UN990037	1746-214-101	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-004.100 (55x55, glossy)	UN990052	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-004.000 (50x50, glossy)	UN990037	1746/10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-004.020 (50x50, glossy)	UN990073	1746/10-84	
	future linear	studio white (RAL 9016) matt	JZ-004.021 (50x50, matt)	UN990103	1746/10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-004.020 (50x50, glossy)	UN990073	1746/10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-004.021 (50x50, matt)	UN990103	1746/10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-004.010 (50x50, glossy)	UN990047	1746-212-101	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-004.010 (50x50, glossy)	UN990047	1746/10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-004.010 (50x50, glossy)	UN990047	1746/10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-004.010 (50x50, glossy)	UN990047	1746/10-72	
 (3-way switch, LED)	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-003.000 (50x50, glossy)	UN990038	1746-214-101	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-003.100 (55x55, glossy)	UN990053	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-003.000 (50x50, glossy)	UN990038	1746/10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-003.020 (50x50, glossy)	UN990074	1746/10-84	
	future linear	studio white (RAL 9016) matt	JZ-003.021 (50x50, matt)	UN990102	1746/10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-003.020 (50x50, glossy)	UN990074	1746/10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-003.021 (50x50, matt)	UN990102	1746/10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-003.010 (50x50, glossy)	UN990048	1746-212-101	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-003.010 (50x50, glossy)	UN990048	1746/10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-003.010 (50x50, glossy)	UN990048	1746/10-22G	
	impuls	ivory white (RAL 1013) glossy	JZ-003.010 (50x50, glossy)	UN990048	1746/10-72	

*) must be ordered from switch manufacturer or electronics wholesaler

For BJ future/solo there are also 55x55 insert frames (for use with alre 55x55 cover set) – BJ item no. 1747-84 (studio white) and 1784-82 (ivory white)

Note: Busch-Jaeger central disc cannot be used with alre FTR.



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM ELSO

INTEGRATION EXAMPLES



FTR - in Joy



FTR - in Fashion



FTR - in Riva



FTR - in Scala

TYPE ALRE	ELSO RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
FTR 101.000#00	Joy	pure white (RAL 9010) glossy	JZ-001.100 (55x55, glossy)	UN990050	not required	
FTR 101.002#00	Joy	pearl white (RAL 1013) glossy	JZ-001.110 (55x55, glossy)	UN990060	not required	
FTR 101.010#00						
FTR 101.086#00	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-001.000 (50x50, glossy)	UN990035	203084	
FTR 101.202#00						
FTR 101.210#00	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-001.010 (50x50, glossy)	UN990045	203080	
<hr/>						
 Standard (without switch)						
FTR 101.062#00	Joy	pure white (RAL 9010) glossy	JZ-002.100 (55x55, glossy)	UN990051	not required	
FTR 101.262#00	Joy	pearl white (RAL 1013) glossy	JZ-002.110 (55x55, glossy)	UN990061	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-002.000 (50x50, glossy)	UN990036	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-002.010 (50x50, glossy)	UN990046	203080	
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 (ON / OFF switch, LED)						
FTR 101.063#00	Joy	pure white (RAL 9010) glossy	JZ-012.100 (55x55 glossy)	UN990123	not required	
	Joy	pearl white (RAL 1013) glossy	JZ-012.110 (55x55 glossy)	UN990137	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-012.000 (50x50 glossy)	UN990107	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-012.010 (50x50 glossy)	UN990133	203080	
<hr/>						
 (Switch H/OFF/C)						
FTR 101.065#00	Joy	pure white (RAL 9010) glossy	JZ-004.100 (55x55, glossy)	UN990052	not required	
FTR 101.265#00	Joy	pearl white (RAL 1013) glossy	JZ-004.110 (55x55, glossy)	UN990062	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-004.000 (50x50, glossy)	UN990037	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-004.010 (50x50, glossy)	UN990047	203080	
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 (H/C switch)						
FTR 101.075#00	Joy	pure white (RAL 9010) glossy	JZ-003.100 (55x55, glossy)	UN990053	not required	
	Joy	pearl white (RAL 1013) glossy	JZ-003.110 (55x55, glossy)	UN990063	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-003.000 (50x50, glossy)	UN990038	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-003.010 (50x50, glossy)	UN990048	203080	
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 (3-way switch, LED)						

*) must be ordered from switch manufacturer or electronics wholesaler



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM GIRA

INTEGRATION EXAMPLES



FTR – in Standard 55



FTR – in E 2



FTR – in Event



FTR – in surface switch



FTR – in E 22

TYPE ALRE	GIRA RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO / PG
FTR 101.000#00 FTR 101.002#00 FTR 101.010#00 FTR 101.086#00 FTR 101.202#00 FTR 101.210#00	Standard 55/E2/E22/Event/Esprit Standard 55/E2/E22/Event/Esprit surface switch Standard 55/Event/Esprit/ClassiX	pure white (RAL 9010) glossy pure white (RAL 9010) matt pure white (RAL 9010) glossy cream white (RAL 1013) glossy	JZ-001.100 (55x55, glossy) JZ-001.101 (55x55, matt) JZ-001.000 (50x50, glossy) JZ-001.110 (55x55, glossy)	UN990050 UN990055 UN990035 UN990060	not required not required 0282 112 not required	
	System 55 System 55	aluminium/matt anthracite/matt	JZ-001.131/GI JZ-001.141/GI	UN990110 UN990111	not required not required	
Standard (without switch)						
FTR 101.062#00 FTR 101.262#00	Standard 55/E2/E22/Event/Esprit Standard 55/E2/E22/Event/Esprit surface switch Standard 55/Event/Esprit/ClassiX	pure white (RAL 9010) glossy pure white (RAL 9010) matt pure white (RAL 9010) glossy cream white (RAL 1013) glossy	JZ-002.100 (55x55, glossy) JZ-002.101 (55x55, matt) JZ-002.000 (50x50, glossy) JZ-002.110 (55x55, glossy)	UN990051 UN990056 UN990036 UN990061	not required not required 0282 112 not required	
	System 55	anthracite/matt	JZ-002.141/GI	UN990121	not required	
(ON/OFF switch, LED)						
FTR 101.063#00	Standard 55/E2/E22/Event/Esprit Standard 55/E2/E22/Event/Esprit surface switch Standard 55/Event/Esprit/ClassiX	pure white (RAL 9010) glossy pure white (RAL 9010) matt pure white (RAL 9010) glossy cream white (RAL 1013) glossy	JZ-012.100 (55x55 glossy) JZ-012.101 (55x55 matt) JZ-012.000 (50x50 glossy) JZ-012.110 (55x55 glossy)	UN990123 UN990136 UN990107 UN990137	not required not required 0282 112 not required	
	(Switch H/OFF/C)					
FTR 101.065#00 FTR 101.265#00	Standard 55/E2/E22/Event/Esprit Standard 55/E2/E22/Event/Esprit surface switch Standard 55/Event/Esprit/ClassiX	pure white (RAL 9010) glossy pure white (RAL 9010) matt pure white (RAL 9010) glossy cream white (RAL 1013) glossy	JZ-004.100 (55x55, glossy) JZ-004.101 (55x55, matt) JZ-004.000 (50x50, glossy) JZ-004.110 (55x55, glossy)	UN990052 UN990057 UN990037 UN990062	not required not required 0282 112 not required	
	(H/C switch)					
FTR 101.075#00	Standard 55/E2/E22/Event/Esprit Standard 55/E2/E22/Event/Esprit surface switch Standard 55/Event/Esprit/ClassiX	pure white (RAL 9010) glossy pure white (RAL 9010) matt pure white (RAL 9010) glossy cream white (RAL 1013) glossy	JZ-003.100 (55x55, glossy) JZ-003.101 (55x55, matt) JZ-003.000 (50x50, glossy) JZ-003.110 (55x55, glossy)	UN990053 UN990058 UN990038 UN990063	not required not required 0282 40 not required	
	(3-way switch, LED)					

*) must be ordered from switch manufacturer or electronics wholesaler

**) for GIRA surface switches, there are also 55x55 insert frames (for the use of alre 55x55 cover set) – GIRA item no. 0289 112 (pure white) and 0289 111 (cream white)



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM JUNG

INTEGRATION EXAMPLES


FTR - in AS 500



FTR - in A 500



FTR - in A plus



FTR - in A creation



FTR - in LS-design

TYPE ALRE	JUNG RANGE	COLOUR (RAL) / SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
FTR 101.000#00 FTR 101.002#00 FTR 101.010#00 FTR 101.086#00 FTR 101.202#00 FTR 101.210#00	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy JZ-001.100 (55x55, glossy) alpine white (RAL 9010) glossy JZ-001.000 (50x50, glossy) alpine white (RAL 9010) glossy JZ-001.000 (50x50, glossy)	JZ-001.100 (55x55, glossy) JZ-001.000 (50x50, glossy) JZ-001.000 (50x50, glossy)	UN990050 UN990035 UN990035	not required CD 590 Z WW LS 961 Z WW**	
Standard (without switch) 	AS 500 CD 500/CD plus LS 990/LS design/LS plus AS 550/A flow Series A Series A	white (RAL 1013) glossy white (RAL 1013) glossy white (RAL 1013) glossy snow white matt aluminium/glossy anthracite/matt	JZ-001.110 (55x55, glossy) JZ-001.010 (50x50, glossy) JZ-001.010 (50x50, glossy) JZ-001.101 (55x55, matt) JZ-001.130/JU JZ-001.141/JU	UN990060 UN990045 UN990045 UN990055 UN990112 UN990113	not required 590 Z LS 961 Z WW** not required not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy JZ-002.100 (55x55, glossy) alpine white (RAL 9010) glossy JZ-002.000 (50x50, glossy) alpine white (RAL 9010) glossy JZ-002.000 (50x50, glossy)	JZ-002.100 (55x55, glossy) JZ-002.010 (50x50, glossy) JZ-002.010 (50x50, glossy)	UN990051 UN990036 UN990036	not required CD 590 Z WW LS 961 Z WW**	
	AS 500 CD 500/CD plus LS 990/LS design/LS plus AS 550/A flow	white (RAL 1013) glossy white (RAL 1013) glossy white (RAL 1013) glossy snow white matt	JZ-002.110 (55x55, glossy) JZ-002.010 (50x50, glossy) JZ-002.010 (50x50, glossy) JZ-002.101 (55x55, matt)	UN990061 UN990046 UN990046 UN990056	not required 590 Z LS 961 Z ** not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy JZ-012.100 (55x55 glossy) alpine white (RAL 9010) glossy JZ-012.000 (50x50 glossy) alpine white (RAL 9010) glossy JZ-012.000 (50x50 glossy)	JZ-012.100 (55x55 glossy) JZ-012.010 (50x50 glossy) JZ-012.010 (50x50 glossy)	UN990123 UN990107 UN990107	not required CD 590 Z WW LS 961 Z WW**	
	AS 500 CD 500/CD plus LS 990/LS design/LS plus AS 550/A flow	white (RAL 1013) glossy white (RAL 1013) glossy white (RAL 1013) glossy snow white matt	JZ-012.110 (55x55 glossy) JZ-012.010 (50x50 glossy) JZ-012.010 (50x50 glossy) JZ-012.101 (55x55 matt)	UN990137 UN990133 UN990133 UN990136	not required 590 Z LS 961 Z ** not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy JZ-004.100 (55x55, glossy) alpine white (RAL 9010) glossy JZ-004.000 (50x50, glossy) alpine white (RAL 9010) glossy JZ-004.000 (50x50, glossy)	JZ-004.100 (55x55, glossy) JZ-004.000 (50x50, glossy) JZ-004.000 (50x50, glossy)	UN990052 UN990037 UN990037	not required CD 590 Z WW LS 961 Z WW**	
(H/C switch) 	AS 500 CD 500/CD plus LS 990/LS design/LS plus AS 550/A flow	white (RAL 1013) glossy white (RAL 1013) glossy white (RAL 1013) glossy snow white matt	JZ-004.110 (55x55, glossy) JZ-004.010 (50x50, glossy) JZ-004.010 (50x50, glossy) JZ-004.101 (55x55, matt)	UN990062 UN990047 UN990047 UN990057	not required 590 Z LS 961 Z ** not required	
	AS 500/A 500/A 550/A creation/A plus/A flow CD 500/CD plus LS 990/LS design/LS plus	alpine white (RAL 9010) glossy JZ-003.100 (55x55, glossy) alpine white (RAL 9010) glossy JZ-003.000 (50x50, glossy) alpine white (RAL 9010) glossy JZ-003.000 (50x50, glossy)	JZ-003.100 (55x55, glossy) JZ-003.000 (50x50, glossy) JZ-003.000 (50x50, glossy)	UN990053 UN990038 UN990038	not required CD 590 Z WW LS 961 Z WW**	
	AS 500 CD 500/CD plus LS 990/LS design/LS plus AS 550/A flow	white (RAL 1013) glossy white (RAL 1013) glossy white (RAL 1013) glossy snow white matt	JZ-003.110 (55x55, glossy) JZ-003.010 (50x50, glossy) JZ-003.010 (50x50, glossy) JZ-003.101 (55x55, matt)	UN990063 UN990048 UN990048 UN990058	not required 590 Z LS 961 Z ** not required	

*) must be ordered from switch manufacturer or electronics wholesaler

**) for the Jung LS series, there are also 55x55 insert frames (for the use of alre 55x55 cover set) – JUNG item no. LS 961 Z5 WW (alpine white) and LS 961 Z5 (white)

*** if necessary, the manufacturer JUNG will change the colour of alpine white from RAL 9010 to RAL 9016



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM MERTEN

INTEGRATION EXAMPLES



FTR - in 1-M



FTR - in M-Smart



FTR - in M-Plan



FTR - in Artec



FTR - in Antik

TYPE ALRE	MERTEN RANGE	COLOUR (RAL) / SURFACE FINISH	ALRE COVER SET COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
FTR 101.000#00 FTR 101.002#00 FTR 101.010#00 FTR 101.086#00 FTR 101.202#00 FTR 101.210#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ D-Life System design: Artec, Antik	polar white (RAL 9010) glossy polar white (RAL 9010) matt active white (RAL 9016) glossy lotus white (RAL 9016) glossy polar white (RAL 9010) glossy	JZ-001.100 (55x55, glossy) JZ-001.101 (55x55, matt) JZ-001.120 (55x55, glossy) JZ-001.020 (50x50, glossy) JZ-001.000 (50x50, glossy)	UN990050 UN990055 UN990086 UN990071 UN990035	not required not required not required MEG4500-6035 5160 99
Standard (without switch)	System M System M	aluminium/matt anthracite/matt	JZ-001.131 / ME JZ-001.141 / ME	UN990116 UN990117	not required not required
FTR 101.062#00 FTR 101.262#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ D-Life System design: Artec, Antik	polar white (RAL 9010) glossy polar white (RAL 9010) matt active white (RAL 9016) glossy lotus white (RAL 9016) glossy polar white (RAL 9010) glossy	JZ-002.100 (55x55, glossy) JZ-002.101 (55x55, matt) JZ-002.120 (55x55, glossy) JZ-002.020 (50x50, glossy) JZ-002.000 (50x50, glossy)	UN990051 UN990056 UN990088 UN990072 UN990036	not required not required not required MEG4500-6035 5160 99
(ON / OFF switch, LED)	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ System design: Artec, Antik	white (RAL 1013) glossy white (RAL 1013) glossy	JZ-002.110 (55x55, glossy) JZ-002.010 (50x50, glossy)	UN990061 UN990046	not required 5160 94
FTR 101.063#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ D-Life System design: Artec, Antik	polar white (RAL 9010) glossy polar white (RAL 9010) matt active white (RAL 9016) glossy lotus white (RAL 9016) glossy polar white (RAL 9010) glossy	JZ-012.100 (55x55 glossy) JZ-012.101 (55x55 matt) JZ-012.120 (55x55 glossy) JZ-012.020 (50x50 glossy) JZ-012.000 (50x50 glossy)	UN990123 UN990136 UN990138 UN990134 UN990107	not required not required not required MEG4500-6035 5160 99
(Switch H/OFF/C)	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ System design: Artec, Antik	white (RAL 1013) glossy white (RAL 1013) glossy	JZ-012.110 (55x55 glossy) JZ-012.010 (50x50 glossy)	UN990137 UN990133	not required 5160 94
FTR 101.065#00 FTR 101.265#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ D-Life System design: Artec, Antik	polar white (RAL 9010) glossy polar white (RAL 9010) matt active white (RAL 9016) glossy lotus white (RAL 9016) glossy polar white (RAL 9010) glossy	JZ-004.100 (55x55, glossy) JZ-004.101 (55x55, matt) JZ-004.120 (55x55, glossy) JZ-004.020 (50x50, glossy) JZ-004.000 (50x50, glossy)	UN990052 UN990057 UN990089 UN990073 UN990037	not required not required not required MEG4500-6035 5160 99
(H/C switch)	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ System design: Artec, Antik	white (RAL 1013) glossy white (RAL 1013) glossy	JZ-004.110 (55x55, glossy) JZ-004.010 (50x50, glossy)	UN990062 UN990047	not required 5160 94
FTR 101.075#00	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ 1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ D-Life System design: Artec, Antik	polar white (RAL 9010) glossy polar white (RAL 9010) matt active white (RAL 9016) glossy lotus white (RAL 9016) glossy polar white (RAL 9010) glossy	JZ-003.100 (55x55, glossy) JZ-003.101 (55x55, matt) JZ-003.120 (55x55, glossy) JZ-003.020 (50x50, glossy) JZ-003.000 (50x50, glossy)	UN990053 UN990058 UN990090 UN990074 UN990038	not required not required not required MEG4500-6035 5160 99
(3-way switch, LED)	1-M, Atelier-M / M-Smart, M-Pure, M-Plan, M-Creativ System design: Artec, Antik	white (RAL 1013) glossy white (RAL 1013) glossy	JZ-003.110 (55x55, glossy) JZ-003.010 (50x50, glossy)	UN990063 UN990048	not required 5160 94

*) must be ordered from switch manufacturer or electronics wholesaler
Note: Merten central plates cannot be used with alre FTR.



ROOM TEMPERATURE OR FLOOR TEMPERATURE CONTROLLER, ELECTRONIC, WITH CLOCK HTRRUU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP



TECHNICAL DATA

Design:	Berlin UP
Housing material:	PC, PMMA, ABS plastic
Operating voltage:	230 V AC, 50 Hz
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	pluggable screw terminals
Mounting/attachment:	In flush-mounted socket, can be adapted to fit virtually any switch range (deep flush-mounted socket recommended) see adaptation list
Protection rating:	IP30
Protection class:	II, if properly mounted
Safety and EMC:	according to DIN EN 60730
Max. switching current:	10 (2) A
Max. switching voltage:	230 V AC, 50 Hz
Min. switching voltage:	230 V AC, 50 Hz
Switching power:	2300 W
Switching element:	relay
Switching contact:	NO contact
Output signal:	230 V AC, 50 Hz
Sensor:	NTC internal, optional external floor sensor see accessories, optional external room sensor see Sensors 'Sensor 2'
Sensor rupture and short-circuit protection:	If the internal or external sensor is faulty or the external sensor is not connected to the functions room temperature controller with floor monitoring, floor temperature controller or room temperature controller with ext. sensor, emergency operation is triggered.
Control function:	Heating
Control range:	5 to 30 °C (room) / 10 to 42 °C (floor)
Setting range:	The setting range varies, depending on the use of the controller as a room temperature controller (5 ... 30 °C) or floor temperature controller (10 ... 42 °C)
Hysteresis:	for room control < 1 K, for floor control < 2 K
Display type:	illuminated graphical display
Display:	setpoint, actual temperature / date, time; setpoint, actual temperature or date, time
Accessories:	terminal strips: VOOPL compatible valve actuators: ZB00A-010.1xx

APPLICATION

Flush-mounted controller for time-dependent single room or floor temperature control for electrical and hot water heating systems (normally closed actuators). The device can be used as a room temperature controller with internal sensor or (in combination with an optional remote sensor) as a room temperature controller with floor monitoring or floor temperature controller. (Remote sensor is not a part of the scope of delivery)

This clock thermostat has a weekly timer with individually adjustable programs (factory setting: 'normal' daily sequences).

Self-learning function: Automatic adjustment of the controller to the start of the heating period. The goal is to achieve the comfort temperature at the time that has been set. The learning function is disabled upon delivery, but it can be enabled.

Standby function: This function disables the control; frost protection is still ensured.

General features:
ECO function, adjustable ECO value; 'ECO' display; 'on / off' display; 'heating' display; digital actual value display; backlighting; standby mode with frost protection monitoring; child-safe features; load setting; power reserve (approx. 5 days); Actual value correction/measured value correction; learning function; valve protection; holiday setting; party setting; external setting; comfortable operation using touch-sensitive buttons; VDE-tested

Special colours as well as the colours anthracite and aluminium are available for projects upon request.

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
	UA060000	Scope of delivery: controller, 50x50 mm cover, pure white (like RAL 9010), glossy , alre frame 'Berlin'		
	UN060011	like HTRRUU 210.021#21 but scope of delivery as follows: Controller, 50x50 mm cover, pure white (like RAL 9010), glossy , alre frame 'Berlin', external floor sensor (HF-8/4-K2)		
	UA060001	like HTRRUU 210.021#21 but scope of delivery as follows: Controller, 50x50 mm cover pure white (similar to RAL 9010), glossy , without frame		



TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
	UA060002	like HTRRUu 210.021#21 but scope of delivery as follows: Controller, 50x50 mm cover pearl white (like RAL 1013), glossy , without frame		
	UA060003	like HTRRUu 210.021#21 but scope of delivery as follows: Controller, 50x50 mm cover traffic/studio white (like RAL 9016), glossy , without frame		
	UA060006	like HTRRUu 210.021#21 but scope of delivery as follows: Controller, cover suitable for BUSCH JAEGER Reflex SI / SI Linear pure white (similar to RAL 9010), glossy , without frame		
	UA060004	like HTRRUu 210.021#21 but scope of delivery as follows: Controller, 55x55 mm cover pure white (like RAL 9010), glossy , without frame		
	UA060020	like HTRRUu 210.021#21 but scope of delivery as follows: Controller, 55x55 mm cover, pure white (like RAL 9010), matt , without a frame		
	UA060005	like HTRRUu 210.021#21 but scope of delivery as follows: Controller, 55x55 mm cover pearl white (like RAL 1013), glossy , without frame		
	UA060014	like HTRRUu 210.021#21 but scope of delivery as follows: Controller, 55x55 mm cover traffic/studio white (like RAL 9016), glossy , without frame		

ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
	G8000370	General features: optional, external floor sensor Ambient temperature: -5 to +70 °C Protection rating: IP65 Sensor: NTC Connecting cable: 4 m, PVC	
	G8000368	General features: optional, external floor sensor Ambient temperature: -5 to +70 °C Protection rating: IP65 Sensor: NTC Connecting cable: 6 m, PVC	
	G9990180	General features: heat conduction paste 2 ml; R > 1 TΩ/cm, silicone-free Ambient temperature: -40 to +150 °C Heat conductivity: > 0.7 W/mK	
	C1809515	General features: protective sleeve for screed mounting (for sleeve sensor HF Ø 7.7, for example, HF-8/4-K2 or HF-8/6-K2), copper	
	VV000025	General features: alre frame 'Berlin' (neutral) for all flush-mounted controllers with cover 50x50 mm Design: Berlin Surface finish: Glossy Colour: Pure white, like RAL 9010 Material: PC plastic	



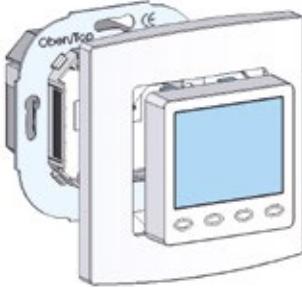
ROOM TEMPERATURE OR FLOOR TEMPERATURE CONTROLLER, ELECTRONIC, WITH CLOCK HTRRUU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
JZ-090.100	VV000048	Features: like JZ-090.900 but for all flush-mounted controllers in combination with 55x55 mm cover Surface finish: glossy Colour: pure white, like RAL 9010 Material: PC plastic	
JZ-090.910	VV000010	General features: alre frame 'Berlin' (neutral) for all flush-mounted controllers with cover 50x50 mm Design: Berlin Surface finish: glossy Colour: pearl white, like RAL 1013 Material: PC plastic	
BTF2-C47-0000	SA140014	Surface-mounted 'ultra-thin' room temperature sensor for temperature measurement in residential and business premises	
FUFC 47-0000	SN090198	Flush-mounted room temperature sensor for temperature measurement in residential and business premises	

ILLUSTRATIONS

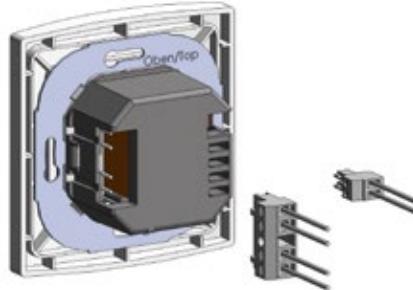
HTRRUu with alre frame 'Berlin'



additional benefits:

- Pluggable screw-type terminals facilitate quick and easy assembly
- Illuminated, graphics-capable display
- Choice of 8 different external floor sensors (e.g., 2 kOhm – alre, 12 kOhm – OJ/AEG, 15 kOhm – DEVI, 33 kOhm – Eberle), meaning they are also ideal for retrofitting
- VDE mark
- Automatic adjustment to standard/daylight savings time
- Learn function
- Correction of measurement values
- Open window detection
- Configurable display content during installation, choice of various languages including German, English, French, Dutch, Polish, Spanish, Czech, Russian, Italian and Hungarian
- Limit setting for floor temperature
- Standby with frost protection
- Key lock
- Valve protection function
- Configurable control method (PI-PWM or 2-point control)
- Holiday and party function
- Power reserve
- Heating operation indication (orange LED)
- Load setting for improved control

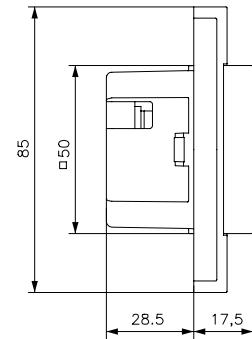
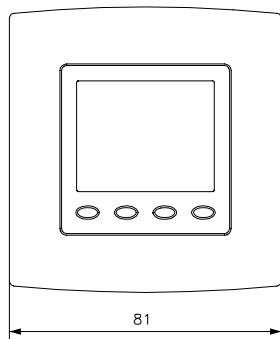
Pluggable screw-type terminals



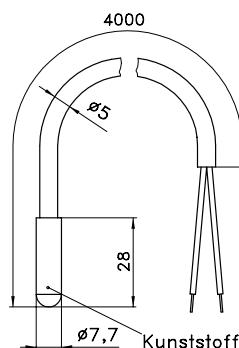
Factory setting:

- Holiday temperature 17 °C
- Setback temperature 17 °C
- Comfort temperature 20 °C
- Comfort times: Mon – Fri 5 am – 9 am / 4 pm – 10 pm, Sat/Sun 6 am – 10 pm
- Key lock disabled
- Automatic adjustment to summer/winter time enabled
- Valve and pump protection disabled
- Learning function disabled
- Display lighting 10 s
- Heating load 0.1 kW
- 2-point control method
- External sensor
- 2 kOhm and max. floor temperature 42 °C (if configured as floor temperature controller)

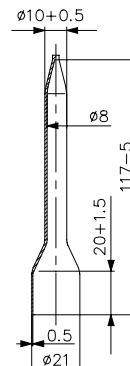
HTRRUu with alre frame 'Berlin'



HF-8/4-K2



THF





ADAPTATION OF ALRE FLUSH-MOUNTED CONTROLLERS –

HTRRUU 210.021

MANUFACTURER	RANGE	COLOUR RAL 9010 (surface finish)	ADAPTATION in switch range '55x55' possible using...	'50x50' adaptation possible with... (insert frame from switch manufacturer required)
BERKER	S.1	polar white (matt)	HTRRUU 210.021#56	not required
BERKER	S.1	polar white (glossy)	HTRRUU 210.021#55	not required
BERKER	Arsys	polar white (glossy)		HTRRUU 210.021#07 + (1108 01 69)
BERKER	B.3	aluminium/polar white (matt)	HTRRUU 210.021#56	not required
BERKER	B.3	aluminium / polar white (glossy)	HTRRUU 210.021#55	not required
BERKER	B.7	glass / polar white (matt)	HTRRUU 210.021#56	not required
BERKER	B.7	glass / polar white (glossy)	HTRRUU 210.021#55	not required
BERKER	K.1	polar white (glossy)		HTRRUU 210.021#07 + (1108 71 09)
BUSCH-JAEGER	Reflex SI / SI Linear	alpine white (glossy)	HTRRUU 210.021#28	not required
BUSCH-JAEGER	Busch-balance SI	alpine white (glossy)	HTRRUU 210.021#55	not required
BUSCH-JAEGER	impuls	alpine white (glossy)		HTRRUU 210.021#07 + (1746/10-74)
BUSCH-JAEGER	solo / future / axcent etc.	studio white – see RAL 9016 below		
Elo	Joy	pure white (glossy)	HTRRUU 210.021#55	not required
Elo	Fashion / Riva / Scala	pure white (glossy)		HTRRUU 210.021#07 + 203084
GIRA	surface switch	pure white (glossy)		HTRRUU 210.021#07 + (0282 112)
GIRA (System 55)	Standard/E2	pure white (semi-gloss)	HTRRUU 210.021#56	not required
GIRA (System 55)	Standard/E2/E3	pure white (glossy)	HTRRUU 210.021#55	not required
GIRA (System 55)	E22	pure white (glossy)	HTRRUU 210.021#55	not required
GIRA (System 55)	Event	pure white (semi-gloss) + opaque...	HTRRUU 210.021#56	not required
GIRA (System 55)	Event	pure white (glossy) + opaque...	HTRRUU 210.021#55	not required
GIRA (System 55)	Esprit	pure white (semi-gloss) + glass, aluminium...	HTRRUU 210.021#56	not required
GIRA (System 55)	Esprit	pure white (glossy) + glass, aluminium...	HTRRUU 210.021#55	not required
GIRA	S-Color	pure white (high-gloss)		HTRRUU 210.021#07 + (0282 40)
JUNG	CD 500 / CD plus	alpine white (glossy) **		HTRRUU 210.021#07 + (CD 590 Z WW)
JUNG	A 500 / AS 500 / A plus	alpine white (glossy) **	HTRRUU 210.021#55	not required
JUNG	LS 990	alpine white (glossy) **		HTRRUU 210.021#07 + (LS 961 Z WW)
JUNG	LS plus	alpine white (glass) **		HTRRUU 210.021#07 + (LS 961 Z WW)
JUNG	A creation	alpine white (glossy)	HTRRUU 210.021#55	not required
JUNG	LS Design	alpine white (glossy)		HTRRUU 210.021#07 + (LS 961 Z WW)
JUNG	AS 550 / A flow	snow white matt	HTRRUU 210.021#56	not required
MERTEN (System M)	M-Smart, M-Plan, M-Pure	polar white (matt)	HTRRUU 210.021#56	not required
MERTEN (System M)	M-Smart, M-Plan, M-Creativ, M-Pure	polar white (glossy)	HTRRUU 210.021#55	not required
MERTEN (System Basis)	1-M / Atelier-M	polar white (glossy)	HTRRUU 210.021#55	not required
MERTEN (Surface System)	Artec/Antik	polar white (glossy)		HTRRUU 210.021#07 + (5160 99)
MERTEN	1-M/M-Smart/M-Plan / M-Pure/D-Life	active white – see RAL 9016 below		
PEHA	Standard	pure white (glossy)		HTRRUU 210.021#07 + (80.670.02 ZV)
PEHA	Dialog	pure white (glossy)		HTRRUU 210.021#07 + (95.670.02 ZV)
PEHA	Aura	pure white (matt) / glass		HTRRUU 210.021#07 + (20.670.02 ZV)
PEHA	Badora	pure white (glossy)		HTRRUU 210.021#07 + (11.670.02 ZV)

MANUFACTURER	RANGE	COLOUR RAL 9016 (surface finish)	ADAPTATION in switch range '55x55' possible using...	'50x50' adaptation possible with... (insert frame from switch manufacturer required)
BUSCH-JAEGER	solo / future / future linear	studio white (RAL 9016, glossy)		HTRRUU 210.021#27 + (1746/10-84)
BUSCH-JAEGER	axcent	studio white (RAL 9016, glossy)		HTRRUU 210.021#27 + (1746/10-84)
BUSCH-JAEGER	carat (glass, bronze, gold)	studio white (RAL 9016, glossy)		HTRRUU 210.021#27 + (1746/10-84)
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016, glossy)		HTRRUU 210.021#27 + (1746/10-24G)
MERTEN	M-Smart, M-Plan, M-Pure	active white (RAL 9016, glossy)	HTRRUU 210.021#59	not required
MERTEN	1-M / Atelier-M	active white (RAL 9016, glossy)	HTRRUU 210.021#59	not required
MERTEN	D-Life	lotus white (RAL 9016)		HTRRUU 210.021#27 + MEG4500-6035
PEHA	Standard	arctic		HTRRUU 210.021#27 + (D 80.670 ZV AW)

*) During assembly, you need to remove 4 plastic tabs located at the rear of the frame

**) if necessary, the manufacturer JUNG will change the colour from RAL 9010 to RAL 9016

NOTE: Most light switches are designed in the colour "like RAL 9010", although different switch manufacturers use different designations for this colour. Coloured, glass and aluminium frames are also combined with white jacks or plugs so that controllers with white covers can also be integrated into these frames. Check the precise application in each individual case. The frames have different surface qualities (matt/glossy). For design reasons, the cover of the controller should have the same quality as the frame. We accept no liability for slight variations in colour and surface finish or for accuracy of fit. When installing devices into multi frames, always assemble the temperature controllers at the lowermost position.

'50x50 controller': The housing covers of the 50x50 controllers are 50x50 mm in size. Using a 50x50 mm insert frame, they can be integrated into nearly all light switch ranges in accordance with DIN 49075. The 50x50 mm insert frames must be ordered from the light switch manufacturer or from a wholesaler. The order number of the insert frame corresponding to the switch range in question can be found in the column 'For adaptation of size '50x50' HTRRUU'.

'55x55 controller': The housing covers of the 55x55 controllers are 55x55 mm in size. Many light switch ranges have inner dimensions of 55x55 mm. Therefore, the 55x55 controllers can be installed directly in the light switch frame without the use of an insert frame. See the column 'Adaptation in switch range (55x55)' to determine whether the 55x55 controller fits in the given light switch range (HTRRUU 210.021#xx).

All information regarding switch manufacturers' product lines and item numbers was last updated in 12/2022 | No liability is assumed for the information provided. | Technical specifications subject to change.



FLOOR OR SURFACE TEMPERATURE CONTROLLER, ELECTRONIC, WITH REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING / TILED STOVE) HTTBB

SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000

TECHNICAL DATA



Design:	Berlin 2000
Surface finish:	matt
Housing colour:	pure white, like RAL 9010
Housing material:	ABS plastic
Operating voltage:	230 V AC, 50 Hz
Ambient temperature:	0 ... 30 °C
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	screw-type terminals
Mounting/attachment:	surface-/wall-mounting (4-hole assembly on flush-mounted socket)
Protection rating:	IP30
Protection class:	II, if properly mounted
Safety and EMC:	according to DIN EN 60730
Max. switching current:	13 (2) A
Max. switching voltage:	230 V AC, 50 Hz
Min. switching voltage:	230 V AC, 50 Hz
Switching power:	3000 W
Switching element:	relay
Switching contact:	NO contact
Output signal:	230 V AC, 50 Hz
Sensor:	external, NTC
Sensor rupture and short-circuit protection:	heating is switched off
Control function:	Heating
Hysteresis:	approx. 1 K
General features:	'Heating' display; mechanical range limitation; 3000 W switching power for electric direct heating systems, natural stone heating; 'on / off' switch; external setting

APPLICATION

Temperature control (e.g., of electrical heating systems) for floor, fringe zone, bathroom, ceiling, tiled stove, marble and wall heating systems or tempering systems.

Note: The sensor line must be routed in a protective duct. Parallel routing together with lines that carry alternating currents is not admissible.

Floor temperature controller with clock: HTTBBu-110.021
Floor temperature controller for distributor assembly:
ITR 79 Series (plant engineering)

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
HTTBB-011.010 	DA400000	<p>General features: Floor temperature controller with remote sensor HF-8/4-K2 4 m, multi-digit display 1–6</p> <p>Control range: 10 to 60 °C</p> <p>Note: The setting range can be adjusted to e.g. 10 to 40 °C using the mechanical range limitation as a replacement for the type HTTBB-010.310.</p>		
HTTBB-011.410 	DA400100	<p>General features: Tiled stove surface temperature controller with remote sensor HF-5/4-K3 4 m; scale: Degrees Celsius; threshold arrow</p> <p>Control range: 20–80 °C</p>		



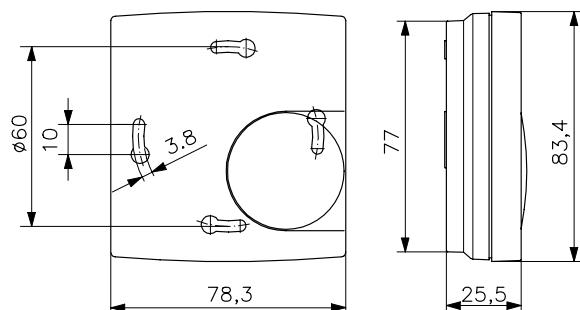
FLOOR OR SURFACE TEMPERATURE CONTROLLER, ELECTRONIC, WITH REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING / TILED STOVE) HTRRB

SURFACE-MOUNTED INSTALLATION – DESIGN BERLIN 2000

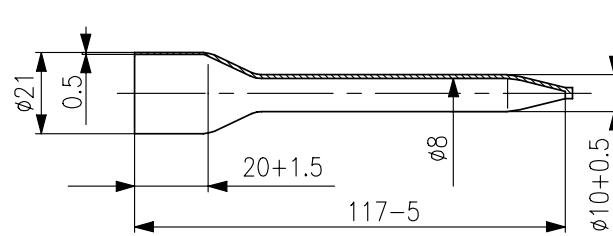
ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
HF-8/4-K2	G8000370	General features: Spare sensor for HTRRB-011.010 Ambient temperature: -5 to +70 °C Protection rating: IP65 Sensor: NTC Connecting cable: 4 m, PVC	
HF-8/6-K2	G8000368	General features: Spare sensor for HTRRB-011.010 Ambient temperature: -5 to +70 °C Protection rating: IP65 Sensor: NTC Connecting cable: 6 m, PVC	
HF-5/4-K3	G9031456	General features: Spare sensor for HTRRB-011.410 Ambient temperature: -50 to +150 °C Protection rating: IP65 Sensor: NTC Connecting cable: 4 m, silicone, H05SS-F <VDE> 2x0.75 mm ²	
WP-01	G9990180	General features: heat conduction paste 2 ml; R > 1 TΩ/cm, silicone-free Heat conductivity: > 0.7 W/mK Ambient temperature: -40 to +150 °C	
THF	C1809515	General features: protective sleeve for screed mounting (for sleeve sensor HF Ø 7.7, for example, HF-8/4-K2 or HF-8/6-K2), copper	

ILLUSTRATIONS

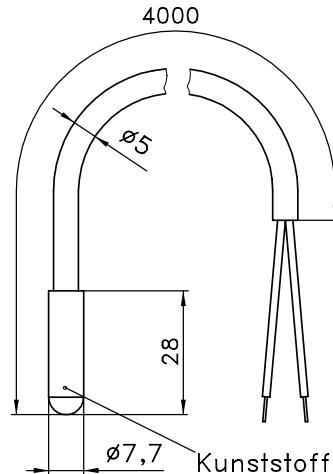
HTRRB



THF



HF-8/4-K2





ELECTRONIC FLOOR OR SURFACE TEMPERATURE CONTROLLER WITH CLOCK AND REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING) HTRRBU

SURFACE-MOUNTED INSTALLATION – BERLIN 3000

TECHNICAL DATA



Design:	Berlin 3000
Surface finish:	matt
Housing colour:	pure white, like RAL 9010
Housing material:	ABS plastic
Operating voltage:	230 V AC, 50 Hz
Ambient temperature:	0 ... 30 °C
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	screw-type terminals 0.5 ... 1.5 mm ²
Mounting/attachment:	surface/wall mounting or by means of an adapter plate on a flush-mounted socket
Protection rating:	IP30
Protection class:	II, if properly mounted
Safety and EMC:	according to DIN EN 60730
Max. switching current:	heating (terminal 4) 13 (2) A, clock output (terminal 3) 100 mA
Max. switching voltage:	230 V AC, 50 Hz
Min. switching voltage:	230 V AC, 50 Hz
Switching power:	terminal 4: 3000 W, terminal 3: 23 W
Switching element:	relay
Switching contact:	NO contact
Output signal:	switching (230 VAC, 50 Hz)
Sensor:	external, NTC
Control function:	Heating
Control range:	10 ... 42 °C
Hysteresis:	approx. 1 K
Display type:	symbol display
Output 'temperature reduction':	switching (230 VAC, 50 Hz), for pilot function

APPLICATION

Time-dependent temperature control (for example, of electrical heating systems) for floor, fringe zone, bathroom, ceiling, tiled stove, marble and wall heating systems or tempering systems.

It can be used as a master (pilot regulator) for the temperature reduction of other controllers. Controllers of the series FETR, RTBSU and RTBSB are suitable for use as slaves (satellite controllers).

Note: The sensor line must be routed in a protective duct. Parallel routing together with lines that carry AC voltage is not permissible.

Programming procedures for every day, familiar from mechanical timers, by means of 'electronic tabs'. Shortest switching time 15 min.

General features:

Pilot function; ECO function; ECO value adjustable; display 'ECO'; display 'On / Off'; display 'heating'; child-safe features; power reserve (approx. 4 – 7 days); learning function; valve protection; holiday setting; party setting; automatic adjustment to standard/daylight savings time; mechanical range limitation; reduction / comfort / automatic button; external setting; operation using direct-dial buttons; on/off button; information button; party function button; holiday setting button

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
HTRRBu-110.021	MA600400	With backlighting		

Accessories: terminal strips: VOOPL compatible valve actuators: ZBOOA-010.1xx



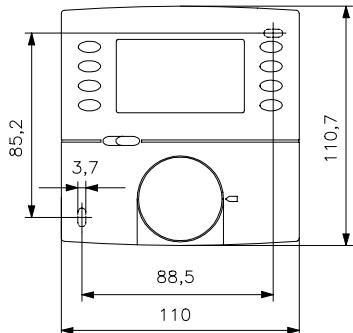
ELECTRONIC FLOOR OR SURFACE TEMPERATURE CONTROLLER WITH CLOCK AND REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING) HTRRBU

SURFACE-MOUNTED INSTALLATION – BERLIN 3000

ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
JZ-17	MN990001	<p>General features: Adapter plate for mounting devices on flush-mounted sockets (including fastening screws for mounting the controller on the adapter plate)</p> <p>Surface finish: matt</p> <p>Colour: pure white, like RAL 9010</p> <p>Material: ABS plastic</p>	
HF-8/4-K2	G8000370	<p>General features: Spare sensor for HTRRBu-110.021</p> <p>Ambient temperature: -5 to +70 °C</p> <p>Protection rating: IP65</p> <p>Sensor: NTC</p> <p>Connecting cable: 4 m, PVC</p>	
HF-8/6-K2	G8000368	<p>General features: Spare sensor for HTRRBu-110.021</p> <p>Ambient temperature: -5 to +70 °C</p> <p>Protection rating: IP65</p> <p>Sensor: NTC</p> <p>Connecting cable: 6 m, PVC</p>	
WP-01	G9990180	<p>General features: Heat conduction paste 2 ml; $R > 1 \text{ T}\Omega/\text{cm}$, silicone-free</p> <p>Ambient temperature: -40 to +150 °C</p>	
THF	C1809515	<p>General features: protective sleeve for screed mounting (for sleeve sensor HF Ø 7.7, for example, HF-8/4-K2 or HF-8/6-K2), copper</p>	

ILLUSTRATIONS

HTRRBu-110.XXX



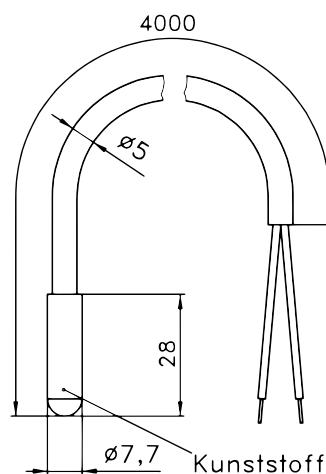
JZ-17



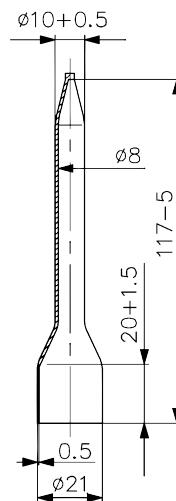
Factory setting:

- Setback temperature 1.7
- Continuous time display
- Programme display using switching segments enabled
- Child-safe features disabled
- Automatic adjustment to summer / winter time enabled
- Valve and pump protection disabled
- Learning function disabled
- Comfort times:
Mon–Fri 5 am–9 am / 4 pm–10 pm,
Sat/Sun 6 am–10 pm
- Sensor rupture and short-circuit safeguarding:
In case of a sensor rupture or sensor short-circuit, the heating is activated with a power-on time of 30% to prevent cooling or frost damage in the room. Temperatures below -20 °C are also interpreted as sensor rupture, and the emergency function is triggered.

HF-8/4-K2



THF





ELECTRONIC FLOOR TEMPERATURE CONTROLLER WITH REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING) FETR/RTERU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP



TECHNICAL DATA

Design:	Berlin UP
Housing material:	PC plastic (FETR) PA6 plastic (RTERU)
Operating voltage:	230 V AC, 50 Hz
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	screw-type terminals (FETR) pluggable screw terminals (RTERU)
Mounting/attachment:	In flush-mounted socket – with suitable cover set, can be adapted to fit virtually any switch range (deep flush-mounted socket recommended)
Protection rating:	IP30
Protection class:	II, if properly mounted
Safety and EMC:	according to DIN EN 60730
Max. switching voltage:	230 V AC, 50 Hz
Min. switching voltage:	230 V AC, 50 Hz
Switching element:	relay
Switching contact:	NO contact
Output signal:	switching (230 VAC, 50 Hz)
Sensor:	external or internal/external (monitors)
Sensor type (external):	HF-8/4-K2
Sensor rupture and short-circuit protection:	heating is switched off
Sensor wire extendible up to:	50 m with min. 0.5 mm ² double-insulated
Control function:	Heating
Hysteresis:	<1 K (FETR) 1.5 K (RTERU)
General features:	ECO function; 'reduction' display (FETR); 'heating' display
Input temperature reduction:	approx. 5 K (230 VAC, 50 Hz)

APPLICATION

Temperature control (e.g., of electrical heating systems) for floor, fringe zone, bathroom, ceiling, tiled stove, marble and wall heating systems or tempering systems, direct floor heating systems.

Reduction: With these flush-mounted controllers, the temperature can be reduced by 5 K. For this purpose, potential is applied to the clock input terminal by an external pilot controller or an external timer L1.

Note: The sensor line must be routed in a protective duct. Parallel routing together with lines that carry alternating currents is not admissible.

The 55x55 mm variants visually fit perfectly without an insert frame in many switch ranges of 55x55 mm.

Using an insert frame, the 50x50 mm variants fit in almost all switch ranges.

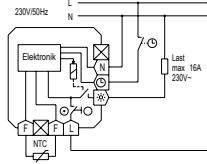
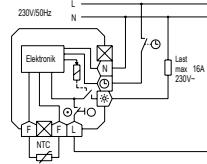
See page for an overview of currently possible combinations and insert frames

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/70PG
RTERU-010.715#00	UN110100	<p>General features: floor temperature controller; mechanical range limitation; on / off switch; external setting; protective cap; contact hazard protection cover plate;</p> <p>Multi-digit display *-6</p> <p>Ambient temperature: 0 to 35 °C</p> <p>Max. switching current: 10 (1.5) A</p> <p>Switching power: 2300 W</p> <p>Control range: 10 to 50 °C</p> <p>Scope of delivery: controller, remote sensor 4 m</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-035.xxx, for example: cover set 50x50 mm, pure white, glossy: JZ-035.000 55x55 mm cover set, pure white, gloss: JZ-035.100</p>		
RTERU-010.715#21	UN110109	Like RTERU-101.715#00 but scope of delivery as follows: controller, 4 m remote sensor, alre frame 'Berlin' (neutral), 50x50 mm cover, pure white (like RAL 9010), glossy		



ELECTRONIC FLOOR TEMPERATURE CONTROLLER WITH REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING) FETR / RTERU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
FETR 101.700#07 	UN030000	<p>General features: Floor temperature controllers; internal setting; multi-digit display 1–6</p> <p>Ambient temperature: 0 to 40 °C</p> <p>Max. switching current: 16 (2) A</p> <p>Switching power: 3680 W</p> <p>Control range: 10 to 60 °C</p> <p>Scope of delivery: controller, remote sensor 4 m, cover 50x50 mm, pure white (like RAL 9010), glossy</p>		
FETR 101.715#00 	UA030119	<p>General features: Floor temperature controller; mechanical range limitation; on/off switch; external setting; protective cap; contact hazard protection cover plate; multi-digit display 1–5</p> <p>Ambient temperature: 0 to 40 °C</p> <p>Max. switching current: 16 (2) A</p> <p>Switching power: 3680 W</p> <p>Control range: 10 to 50 °C</p> <p>Scope of delivery: controller, remote sensor 4 m</p> <p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range (cover sets)') and are not included in the delivery.</p> <p>Suitable set no.: JZ-005.xxx, for example.: cover set 50x50 mm, pure white, glossy: JZ-005.000 cover set 55x55 mm, pure white, glossy: JZ-005.100</p>		
FETR 101.715#21 	UN030109	like FETR 101.715#00, but with scope of delivery: controller, remote sensor 4 m, alre frame 'Berlin' (neutral), cover 50x50 mm, pure white (like RAL 9010), glossy		
FETR 101.716#00 	UA030502	like FETR 101.715#00, but with control range 10 to 42 °C (multi-digit display 1 to 4)		
<p>Cover sets are offered in various designs (see the separate overview, 'alre flush-mounted range [cover sets]') and are not included in the delivery.</p> <p>Suitable set no.: JZ-009.xxx, e.g.: cover set 50x50 mm, pure white, glossy: JZ-009.000 cover set 55x55 mm, pure white, glossy: JZ-009.100 Complete device with alre frame 'Berlin' (neutral), 50x50 mm cover (pure white, like RAL 9010, glossy) upon request.</p>				
ACCESSORIES	ITEM NO.	FEATURES		EURO/PG
HF-8/4-K2 	G8000370	<p>General features: Spare sensor for RTERU/FETR 101.7xx</p> <p>Ambient temperature: -5 to +70 °C</p> <p>Protection rating: IP65</p> <p>Sensor: NTC</p> <p>Connecting cable: 4 m, PVC</p>		
HF-8/6-K2 	G8000368	<p>General features: Spare sensor for RTERU/FETR 101.7xx</p> <p>Ambient temperature: -5 to +70 °C</p> <p>Protection rating: IP65</p> <p>Sensor: NTC</p> <p>Connecting cable: 6 m, PVC</p>		
WP-01 	G9990180	<p>General features: Heat conduction paste 2 ml; $R > 1 \text{ T}\Omega/\text{cm}$, silicone-free</p> <p>Ambient temperature: -40 to +150 °C</p>		
THF 	C1809515	General features: Protective sleeve for screed mounting (for sleeve sensor HF Ø 7.7, for example, HF-8/4-K2 or HF-8/6-K2), copper		



ELECTRONIC FLOOR TEMPERATURE CONTROLLER WITH REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING) FETR/RTERU

FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
JZ-090.900	VV000025	General features: alre frame 'Berlin' (neutral) for all flush-mounted controllers with cover 50x50 mm Design: Berlin Surface finish: Glossy Colour: Pure white, like RAL 9010 Material: PC plastic	
JZ-090.910	VV000010	Like JZ-090.900 but with pearl white colour similar to RAL 1013	
JZ-090.100	VV000048	like JZ-090.900, but for all flush-mounted controllers in combination with 55x55 mm cover	

ALRE FLUSH-MOUNTED RANGE (COVER SETS)

ALL BASIC TYPES AND SUITABLE COVER SETS **50 X 50 MM** / B-J REFLEX SI/SI LINEAR

BASIC TYPE	50x50 mm cover set PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.000)	50x50 mm cover set PURE WHITE (RAL 9010) MATT (JZ-xxx.001)	50x50 mm cover set PEARL WHITE (RAL 1013) GLOSSY (JZ-xxx.010)	EURO/PG
	Cover set	Item no.	Cover set	Item no.
FETR 101.715#00	JZ-005.000	UN990003	JZ-005.001	UN990006
FETR 101.716#00	JZ-009.000	UN990004	JZ-009.001	UN990007
RTERU 010.715#00	JZ-035.000	UN990169	JZ-035.001	UN990193
	Cover set	Item no.	Cover set	Item no.
BASIC TYPE	50x50 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.020)	50x50 mm cover set TRAFFIC WHITE (RAL 9016) MATT (JZ-xxx.021)	EURO/ PG	BUSCH-JAEGER cover set REFLEX SI/SI LINEAR PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.200/BJ)
	Cover set	Item no.	Cover set	Item no.
FETR 101.715#00	JZ-005.020	UN990075	JZ-005.021	UN990104
FETR 101.716#00	JZ-009.020	UN990076	JZ-009.021	UN990106
RTERU 010.715#00	JZ-035.020	UN990185	JZ-035.021	UN990201
	Cover set	Item no.	Cover set	Item no.

In flush-mounted socket, it can be adapted to fit virtually any switch range.

ALL BASIC TYPES AND SUITABLE COVER SETS **55 X 55 MM**

BASIC TYPE	55x55 mm cover set PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.100)	55x55 mm cover set PURE WHITE (RAL 9010) MATT (JZ-xxx.101)	55x55 mm cover set PEARL WHITE (RAL 1013) GLOSSY (JZ-xxx.110)	EURO/PG
	Cover set	Item no.	Cover set	Item no.
FETR 101.715#00	JZ-005.100	UN990012	JZ-005.101	UN990015
FETR 101.716#00	JZ-009.100	UN990013	JZ-009.101	UN990016
RTERU 010.715#00	JZ-035.100	UN990173	JZ-035.101	UN990197
	Cover set	Item no.	Cover set	Item no.
BASIC TYPE	55x55 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.120)	EURO/ PG	55x55 mm cover set ANTHRACITE, MATT FOR GIRA (JZ-xxx.141)	EURO/ PG
	Cover set	Item no.	Cover set	Item no.
FETR 101.715#00	JZ-005.120	UN990091		
FETR 101.716#00	JZ-009.120	UN990092	JZ-009.141/GI	UN990122
RTERU 010.715#00	JZ-035.120	UN990189	JZ-035.141/GI	UN990205
	Cover set	Item no.	Cover set	Item no.

SPECIAL COLOURS
AS WELL AS THE
COLOURS
ANTHRACITE AND
ALUMINIUM ARE
AVAILABLE UPON
REQUEST.

ALL BASIC TYPES AND SUITABLE COVER SETS **70 X 70 MM**

BASIC TYPE	70x70 mm cover set PURE WHITE (RAL 9010) GLOSSY (JZ-xxx.400)	70x70 mm cover set PEARL WHITE (RAL 1013) GLOSSY (JZ-xxx.410)	EURO/ PG	70x70 mm cover set TRAFFIC/STUDIO WHITE (RAL 9016) GLOSSY (JZ-xxx.420)	EURO/ PG
BASIC TYPE	Cover set	Item no.	Cover set	Item no.	Cover set
RTERU 010.715#00	JZ-035.400	UN990143	JZ-035.401	UN990147	JZ-035.420



ADAPTATION OF ALRE FLUSH-MOUNTED CONTROLLERS

MANUFACTURER	RANGE	COLOUR RAL 9010 (surface finish)	ADAPTATION possible with '55x55' or '70x70' cover set (without insert frame)	ADAPTATION '50x50' possible with... (insert frame from switch manufacturer required)
BERKER	S.1	polar white (matt)	x	1109 19 19
BERKER	S.1	polar white (glossy)	x	1109 90 89
BERKER	Arsys	polar white (glossy)		1108 01 69
BERKER	B.3	aluminium / polar white (matt)	x	1109 19 19
BERKER	B.3	aluminium / polar white (glossy)	x	1109 90 89
BERKER	B.7	glass / polar white (matt)	x	1109 19 19
BERKER	B.7	glass / polar white (glossy)	x	1109 90 89
BERKER	Q.1 / Q.3	polar white (velvet)		1109 60 79
BERKER	K.1	polar white (glossy)		1108 71 09
BUSCH-JAEGER	Reflex SI / SI Linear	alpine white (glossy)		1746-214-101
BUSCH-JAEGER	Busch-balance SI	alpine white (glossy)	x	1746-914-101
BUSCH-JAEGER	impuls	alpine white (glossy)		1746/10-74
BUSCH-JAEGER	solo / future / axcent etc.	studio white – see RAL 9016 below		
Elso	Joy	pure white (glossy)	x	363084
Elso	Fashion / Riva / Scala	pure white (glossy)		203084
GIRA	surface switch	pure white (glossy)	x	0282 112
GIRA (System 55)	Standard / E2	pure white (semi-gloss)	x	0282 27
GIRA (System 55)	Standard / E2	pure white (glossy)	x	0282 03
GIRA (System 55)	E22	pure white (glossy)	x	0282 03
GIRA (System 55)	Event	pure white (semi-gloss) + opaque...	x	0282 27
GIRA (System 55)	Event	pure white (glossy) + opaque...	x	0282 03
GIRA (System 55)	Esprit	pure white (semi-gloss) + glass, aluminium...	x	0282 27
GIRA (System 55)	Esprit	pure white (glossy) + glass, aluminium...	x	0282 03
GIRA	S-Color	pure white (high-gloss)		0282 40
JUNG	CD 500 / CD plus	alpine white (glossy)		CD 590 Z WW
JUNG	A 500 / AS 500 / A plus	alpine white (glossy)	x	A 590 Z WW
JUNG	LS 990	alpine white (glossy)	x	LS 961 Z WW
JUNG	LS plus	alpine white (glass)	x	LS 961 Z WW
JUNG	A creation	alpine white (glossy)	x	A 590 Z WW
JUNG	LS Design	alpine white (glossy)	x	LS 961 Z WW
MERTEN (System M)	M-Smart, M-Plan, M-Pure	polar white (matt)	x	5181 19
MERTEN (System M)	M-Smart, M-Plan, M-Creativ, M-Pure	polar white (glossy)	x	5185 19
MERTEN (System Basis)	1-M / Atelier-M	polar white (glossy)	x	5185 19
MERTEN (Surface System)	Artec/Antik	polar white (glossy)		5160 99
MERTEN	1-M / M-Smart / M-Plan / M-Pure / D-Life	active white – see RAL 9016 below or product finder		
PEHA	Standard	pure white (glossy)		80.670.02 ZV
PEHA	Dialog	pure white (glossy)		95.670.02 ZV
PEHA	Aura	pure white (matt) / glass		20.670.02 ZV
PEHA	Badora	pure white (glossy)		11.670.02 ZV

MANUFACTURER	RANGE	COLOUR RAL 9016 (surface finish)	ADAPTATION in switch programmes ('55x55' or '70x70') possible with...	'50x50' adaptation possible with... (insert frame from switch manufacturer required)
BUSCH-JAEGER	solo / future / future linear	studio white (RAL 9016, glossy)		1746/10-84
BUSCH-JAEGER	future linear	studio white (RAL 9016 matt)		1746/10-884
BUSCH-JAEGER	impuls	studio white (RAL 9016 matt)		1746/10-774
BUSCH-JAEGER	axcent	studio white (RAL 9016, glossy)		1746/10-84
BUSCH-JAEGER	carat (glass, bronze, gold)	studio white (RAL 9016, glossy)		1746/10-84
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016, glossy)		1746/10-24G
BUSCH-JAEGER	alpha (nea / exclusive *)	studio white (RAL 9016 matt)		1746/10-24
MERTEN	M-Smart, M-Plan, M-Pure	active white (RAL 9016, glossy)	x	5185 25
MERTEN	1-M / Atelier-M	active white (RAL 9016, glossy)	x	5185 25
MERTEN	D-Life	lotus white (RAL 9016)	x	MEG4500-6035
PEHA	Standard	arctic		D 80.670 ZV AW

*) During assembly, you need to remove 4 plastic tabs located at the rear of the frame

NOTE: Most light switches are designed in the colour 'like RAL 9010', although different switch manufacturers use different designations for this colour. Coloured, glass and aluminium frames are also combined with white jacks or plugs so that controllers with white covers can also be integrated into these frames. Check the precise application in each individual case. The frames have different surface qualities (matt/glossy). For design reasons, the cover of the controller should have the same quality as the frame. We accept no liability for slight variations in colour and surface finish or for accuracy of fit. When installing devices into multi frames, always assemble the temperature controllers at the lowermost position.

'50x50 controller': The housing covers of the 50x50 controllers are 50x50 mm in size. Using a 50x50 mm insert frame, they can be integrated into nearly all light switch ranges in accordance with DIN 49075. The 50x50 mm insert frames must be ordered from the light switch manufacturer or from a wholesaler. The order number of the insert frame corresponding to the switch range in question can be found in the column 'Only for adaptation with '50x50' cover set'.

'55x55 controller': The housing covers of the 55x55 controllers are 55x55 mm in size. Many light switch ranges have inner dimensions of 55x55 mm. Therefore, the 55x55 controllers can be installed directly in the light switch frame without the use of an insert frame. See the column 'Adaptation with '55x55' cover set' to determine whether the 55x55 controller fits in the given light switch model (x).

All information regarding switch manufacturers' product lines and item numbers was last updated in 12/2022 | No liability is assumed for the information provided. | Technical specifications subject to change.



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BERKER

INTEGRATION EXAMPLES



RTERU - in S. 1



RTERU - in B. 3



RTERU - in B. 7



RTERU - in K. 1



RTERU - in Arsys

TYPE ALRE	BERKER RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
RTERU-010.715#00	S.1/B.3/B.7	polar white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required	
	S.1/B.3/B.7	polar white (RAL 9010) matt	JZ-035.101 (55x55 matt)	UN990197	not required	
	Arsys	polar white (RAL 9010) glossy	JZ-035.000 (50x50 glossy)	UN990169	1108 01 69	
	Q.1/Q.3	polar white (RAL 9010) velvet	JZ-035.001 (50x50 matt)	UN990193	1109 60 79	
	K.1	polar white (RAL 9010) glossy	JZ-035.000 (50x50 glossy)	UN990169	1108 71 09	
	S.1	white (RAL 1013) glossy	JZ-035.110 (55x55 glossy)	UN990181	not required	
	Arsys	white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1108 01 02	

PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM BUSCH-JAEGER

INTEGRATION EXAMPLES



RTERU - in Reflex SI



RTERU - in Busch-balance SI



RTERU - in future linear



RTERU - in solo



RTERU - in alpha nea

TYPE ALRE	BUSCH-JAEGER RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
RTERU-010.715#00	Reflex SI/SI Linear	alpine white (RAL 9010) glossy	JZ-035.200/BJ	UN990169	1746-214-101	
	Busch-balance SI	alpine white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required	
	impuls	alpine white (RAL 9010) glossy	JZ-035.000 (50x50 glossy)	UN990169	1746/10-74	
	future linear/solo/axcent/carat	studio white (RAL 9016) glossy	JZ-035.020 (50x50 glossy)	UN990185	1746/10-84	
	future linear	studio white (RAL 9016) matt	JZ-035.021 (50x50 matt)	UN990201	1746/10-884	
	alpha nea	studio white (RAL 9016) glossy	JZ-035.020 (50x50 glossy)	UN990185	1746/10-24G	
	alpha nea	studio white (RAL 9016) matt	JZ-035.021 (50x50 matt)	UN990201	1746/10-24	
	Duro 2000 SI/SI Linear	white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1746-212-101	
	future linear/solo/carat	ivory white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1746/10-82	
	alpha nea	ivory white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	1746/10-22G	



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM ELSO

INTEGRATION EXAMPLES



RTERU – in Joy



RTERU – in Fashion



RTERU – in Riva



RTERU – in Scala

TYPE ALRE	ELSO RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
 RTERU-010.715#00	Joy	pure white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required	
	Joy	pearl white (RAL 1013) glossy	JZ-035.110 (55x55 glossy)	UN990181	not required	
	Fashion/Riva/Scala	pure white (RAL 9010) glossy	JZ-035.000 (50x50 glossy)	UN990169	203084	
	Fashion/Riva/Scala	pearl white (RAL 1013) glossy	JZ-035.010 (50x50 glossy)	UN990177	203080	

Standard

PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM GIRA

INTEGRATION EXAMPLES

RTERU – in Standard
55

RTERU – in E2



RTERU – in Event

RTERU – in surface
switch

RTERU – in E22

TYPE ALRE	GIRA RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
 RTERU-010.715#00	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) glossy	JZ-035.100 (55x55 glossy)	UN990173	not required	
	Standard 55/E2/E22/Event/Esprit	pure white (RAL 9010) matt	JZ-035.101 (55x55 matt)	UN990197	not required	
	Surface switch 	pure white (RAL 9010) glossy	JZ-035.400 (70x70, glossy)	UN990143	not required	
	Standard 55/Event/Esprit/ClassiX	cream white (RAL 1013) glossy	JZ-035.110 (55x55 glossy)	UN990181	not required	
	System 55	anthracite/matt	JZ-035.141/GI	UN990205	not required	



PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM JUNG

INTEGRATION EXAMPLES



RTERU – in AS 500



RTERU – in A 500



RTERU – in A plus



RTERU – in A creation



RTERU – in LS-design

NEW

TYPE ALRE	JUNG RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
Standard)	RTERU-010.715#00	AS 500/A 500/A 550/A creation/A plus/A flow	jz-035.100 (55x55 glossy)	UN990173	not required	
	CD 500/CD plus	alpine white (RAL 9010) glossy	jz-035.000 (50x50 glossy)	UN990169	CD 590 Z WW	
	LS 990/LS design/ LS plus	alpine white (RAL 9010) glossy	jz-035.400 (70x70, glossy)	UN990143	not required	
	AS 500	white (RAL 1013) glossy	jz-035.110 (55x55 glossy)	UN990181	not required	
	CD 500/CD plus	white (RAL 1013) glossy	jz-035.010 (50x50 glossy)	UN990177	590 Z	
	LS 990/LS design/ LS plus	white (RAL 1013) NEW glossy	jz-035.410 (70x70 glossy)	UN990147	not required	

PRODUCT FINDER ALRE COVER SETS

FOR SWITCH RANGES FROM MERTEN

INTEGRATION EXAMPLES



RTERU – in 1-M



RTERU – in M-Smart



RTERU – in M-Plan



RTERU – in Artec



RTERU – in Antik

TYPE ALRE	MERTEN RANGE	COLOUR (RAL)/ SURFACE FINISH	ALRE COVER SET	COVER SET ART. NO.	INSERT FRAME 50X50*	EURO/ PG
Standard)	RTERU-010.715#00	1-M, Atelier-M/M-Smart, M-Pure, M-Plan, M-Creativ	jz-035.100 (55x55 glossy)	UN990173	not required	
	1-M, Atelier-M/M-Smart, M-Pure, M-Plan, M-Creativ	polar white (RAL 9010) matt	jz-035.101 (55x55 matt)	UN990197	not required	
	1-M, Atelier-M/M-Smart, M-Pure, M-Plan, M-Creativ	active white (RAL 9016) glossy	jz-035.120 (55x55 glossy)	UN990189	not required	
	D-Life	lotus white (RAL 9016) glossy	jz-035.420 (70x70, glossy))	UN990151	not required	
	System design: Artec, Antik	polar white (RAL 9010) glossy	jz-035.000 (50x50 glossy)	UN990169	5160 99	
	1-M, Atelier-M/M-Smart, M-Pure, M-Plan, M-Creativ	white (RAL 1013) glossy	jz-035.110 (55x55 glossy)	UN990181	not required	
	System design: Artec, Antik	white (RAL 1013) glossy	jz-035.010 (50x50 glossy)	UN990177	5160 94	

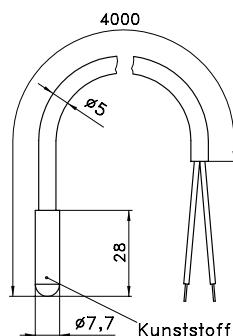


ELECTRONIC FLOOR TEMPERATURE CONTROLLER WITH REMOTE SENSOR (FOR FLOOR HEATING / WALL AND CEILING HEATING) FETR / RTERU

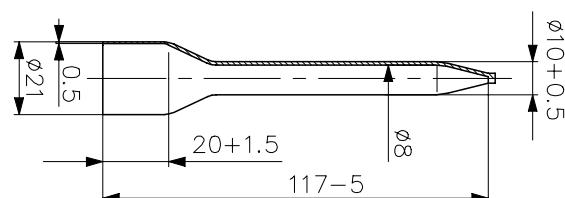
FLUSH-MOUNTED INSTALLATION – DESIGN BERLIN UP

ILLUSTRATIONS

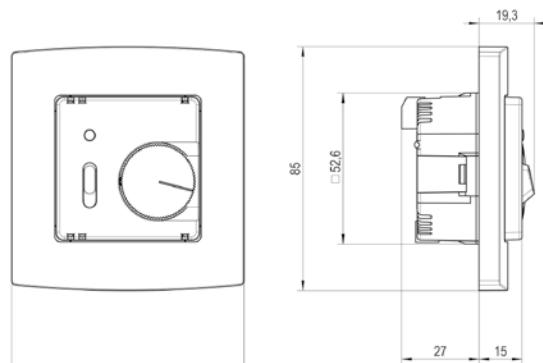
HF-8/4-K2



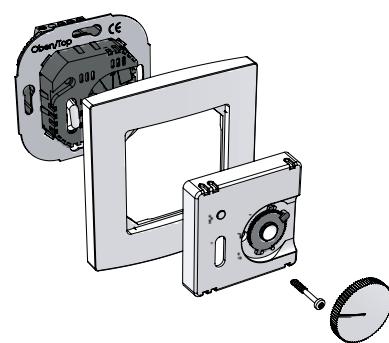
THF



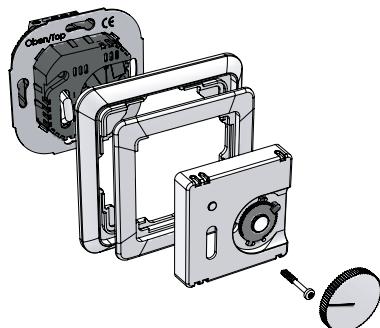
RTERU with alre frame 'Berlin' (#21 types)



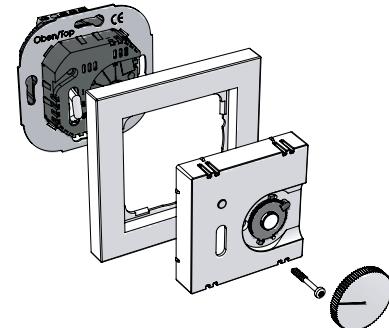
alre frame 'Berlin' (#21 types)



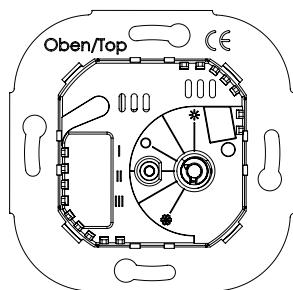
with 50x50 mm insert frame



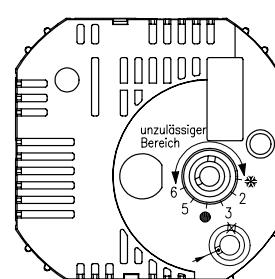
without 55x55 mm insert frame



Internal scale RTERU for temperature control without cover



Contact hazard protection cap with scale
(for FETR 101.700 with internal setting – similar to illustration)





ACTUATOR 'STELLA' 230 V NC

FOR AUTOMATIC HYDRAULIC COMPARISON



TECHNICAL DATA

Operating voltage:	230 V~, 50 Hz
Max. power consumption:	30 W
Max. starting current:	approx. 0.13 A
Housing colour:	grey-orange
Housing material:	PA6 plastic
Ambient temperature:	0 ... 50 °C
Storage temperature:	-25 to +60 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Mounting / attachment:	M 30x1.5
Protection rating:	IP54
Protection class:	II
Safety and EMC:	according to DIN EN 60730
Average power consumption:	approx. 1.7 W
Opening/closing time:	approx. 3 min
Nominal stroke:	3.5 mm
Function type:	normally closed
Nominal closing force:	110 N
Connecting cable:	1 m / 2x0.34 mm ²

APPLICATION

'Stella' – the intelligent autonomous 230 VAC NC electrothermal actuator for automatic adaptive hydraulic comparison of heating manifolds' heating circuits in surface heating and surface cooling systems.

Sensors on the supply and return lines measure temperature differences and algorithm continuously calculates the necessary temperature spread and the appropriate valve position.

Normally closed and features a folding lever for easily unscrewing the thermostat valve or opening it manually when it is disconnected from the mains. With integrated inflow temperature limitation.

TYPE/IMAGE	ITEM NO.	FEATURES	CIRCUIT DIAGRAM	EURO/PG
ZB00A-010.185	G8990010	Actuator for automatic hydraulic comparison		
SET 31	VV000046	Set for performing fully automatic hydraulic comparison consisting of 5 surface-mounted room thermostats, 1 terminal strip and 6 actuators.		
SET 32	VV000047	Set for performing fully automatic hydraulic comparison consisting of 5 flush-mounted room thermostats, 1 terminal strip and 6 actuators.		

ILLUSTRATIONS



BRIEF DESCRIPTION

- Combinable with the commercial two-point room temperature controller (electromechanical, electronic, PWM)
- For heating and cooling systems
- Features a folding lever for easily unscrewing the thermostat valve or opening it manually when it is disconnected from the mains
- Temperature sensors suited for surface heating pipes made of plastic, metal or combinations thereof with an external diameter of 12 to 20 mm
- Measures a heating circuit's outflow temperature
- The range of setpoint temperatures Stella calculates is variable and dependent on user behaviour and the system's environment
- The valve can be adjusted to any desired position between OPEN and CLOSED and set to remain in that position.
- An expansion element and a path measurement system are needed to position the valve lift.



ELECTRO-THERMAL VALVE ACTUATORS

FOR HEATING, VENTILATION AND AIR CONDITIONING TECHNOLOGY



TECHNICAL DATA		APPLICATION
Housing colour:	pure white, like RAL 9010	Extremely compact design:
Housing material:	PC plastic, GF (20%)	Can be fitted quickly and comfortably thanks to the slim shape in the area around the fastening nut.
Ambient temperature:	0 ... 50 °C	
Storage temperature:	-20 ... +70 °C	
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing	
Mounting / attachment:	M 30x1.5	Can be fitted in any position:
Protection rating:	IP42	Lateral drainage holes carry off any leakage water that from the valve plunger into the open, thus avoiding damage to the drive.
Protection class:	II	
Safety and EMC:	according to DIN EN 60730	
Average power consumption:	Approx. 3 W	Additional valve monitoring:
Opening/closing time:	approx. 4 min	Two additional viewing windows at the side allow users to visually check the respective valve position with ease; this does not work when mounted in a suspended manner.
Nominal stroke:	3 mm	
Function type:	normally closed	
Nominal closing force:	90 N	
Connecting cable:	0.8 m / 2x0.5 mm ²	
Valve position indicator:	2X (at the top and the side)	

TYPE/IMAGE	ITEM NO.	FEATURES	EURO/PG
ZB00A-010.100 	H9100010	Operating voltage: 230 V~, 50 Hz Max. power consumption: 70 W Max. starting current: approx. 0.3 A	
ZB00A-040.100 	H9100000	Operating voltage: 24 VDC or 24 VAC Max. power consumption: 12 W Max. starting current: approx. 0.5 A	

Thanks to their M 30x1.5 fastening and their characteristics (normally closed), the actuators are suitable for the following valve and distributor makes: Beulco, Empur, Heimeier, Kamo, Oventrop, Purmo, SBK, SKV, Strawa, Taconova, Watts

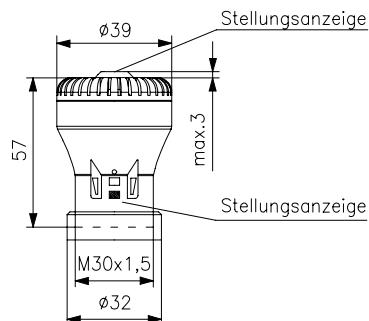
BRIEF DESCRIPTION:

The drive features a compact, space-saving design. The device can be mounted easily thanks to the narrowed shape, especially in the fastening area of the nut. The fastening cable is not located near the fastening nut. This reduces the probability of contact with equipment carrying hot water. Since the fastening nut allows continuous screwing onto the thread, by unscrewing the nut by two or three turns, it is possible to open the valve in an electrically de-energised state – something that cannot be done with bayonet couplings and impulse couplings. Discharged water is dissipated via a draining system. Gaskets are not required thanks to the special design.

THE DOUBLE POSITION DISPLAY HAS THE FOLLOWING ADVANTAGES:

The upper display provides the option of a visual or, in conditions of bad visibility, tactile function test of the drive. The lower viewing windows allow an additional check to determine whether the valve to be actuated follows the lifting movement of the drive. At the beginning of the heating period, it can happen off and on that the valve plungers get "stuck". Therefore, with the additional display, it is possible to determine whether the cause lies with the actuator or with the valve in the event the valve does not open. However, that is not possible when mounted in a suspended manner.

ILLUSTRATIONS



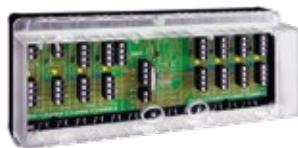
VALVE ACTUATOR WITH EXTENDED PUSH ROD





TERMINAL STRIP FOR HEATING MANIFOLD

FOR 6 OR 8 ROOM THERMOSTATS



TECHNICAL DATA

Surface finish:	Upper part glossy, lower part matt
Housing colour:	Upper part transparent, lower part anthracite grey, similar to RAL 7016
Housing material:	PC plastic
Operating voltage:	230 VAC / 50 Hz
Ambient temperature:	-10 ... +50 °C
Storage temperature:	-20 ... +70 °C
Permissible atmospheric humidity:	Max. 95% rel. humidity, non-condensing
Electrical connection:	spring terminals 0.75 mm ² to 1.5 mm ² for rigid cables 0.5 mm ² to 1 mm ² for flexible cables
Protection rating:	IP20
Mounting / attachment:	convenient and simple installation in the heating manifold via hat rails (standard rail or supporting rail EN 60715) or magnetic bases Surface/wall mounting with 4 fastening screws included in delivery or using optional JZ-32 magnetic fastening set
Protection class:	II, if properly mounted
Control function:	Heating or cooling
General features:	Ready for operation display (mains voltage), active channels display, integrated strain relief, labelling fields

APPLICATION

Terminal strip for heating controller with or without ECO function, also for heating / cooling controller with integrated heating / cooling switch. Depending on the controller used, actuators can be connected in the NC (normally closed) or NO (normally open) mode of operation.

Can be set up with master-slave control when using a clock regulator or an external timer.

TYPE/IMAGE	ITEM NO.	FEATURES	EURO/PG
VOOPL-216.176 	DA480510	General features: Terminal strip in housing for wiring up to 6 room thermostats and up to 12 actuators; (channel 1–2: 1 actuator/channel 3: 4 actuators/channel 4–6: 2 actuators), T3,15 A / 250 V device fuse, installation dimensions Ø 5x20 mm (also secures the circuits of the connected controllers and valve gears)	
VOOPL-318.178 	DA480520	General features: Terminal strip in housing for wiring up to 8 room thermostats and up to 16 actuators; (channel 1–2: 1 actuator/channel 3, 5–8: 2 actuators/channel 4: 4 actuators), T3,15 A / 250 V device fuse, installation dimensions Ø 5x20 mm (also secures the circuits of the connected controllers and valve gears)	

other/similar items: VOORL terminal strip for heating and cooling in the air conditioning technology section

Accessories: suitable valve actuators ZBOOA

ACCESSORIES	ITEM NO.	FEATURES	EURO/PG
JZ-32 	BN990005	General features: Magnetic fastening set for simple and safe fastening of the VOOPL terminal strip on a metallic substrate (for example, heating manifold)	

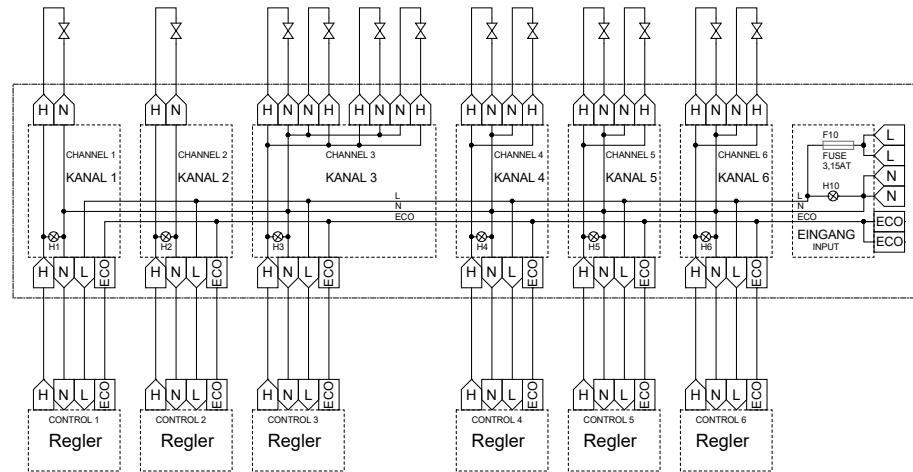


TERMINAL STRIP FOR HEATING MANIFOLD

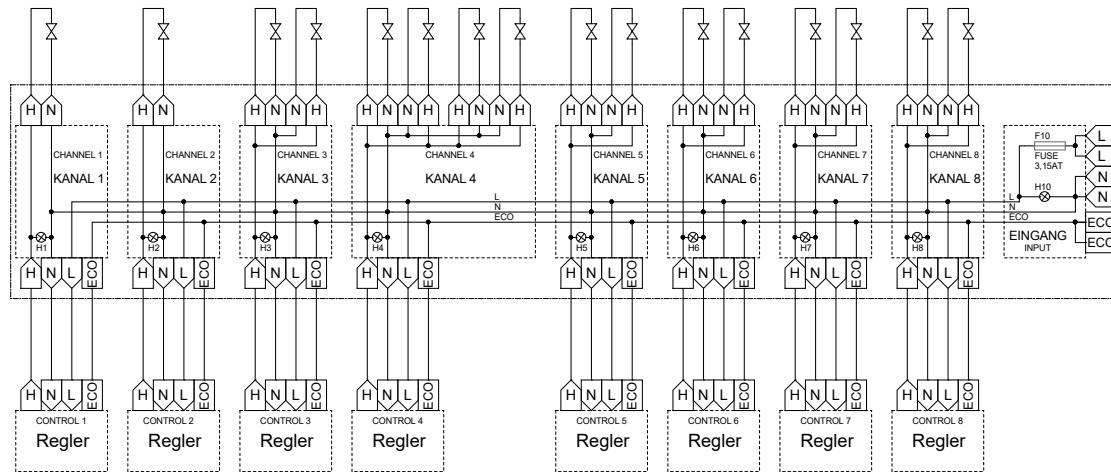
FOR 6 OR 8 ROOM THERMOSTATS

ILLUSTRATIONS

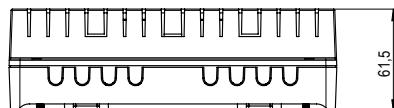
V00PL-216.176



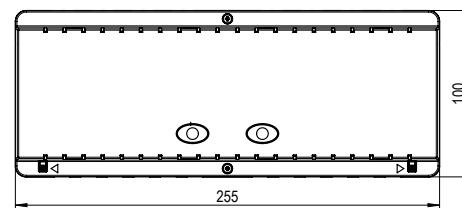
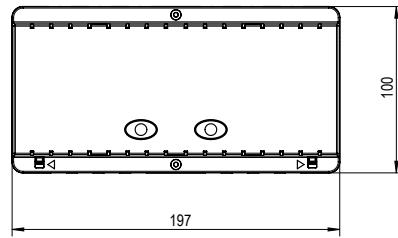
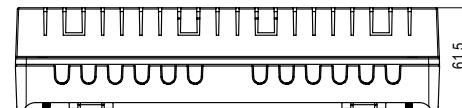
V00PL-318.178



V00PL-216.176



V00PL-318.178



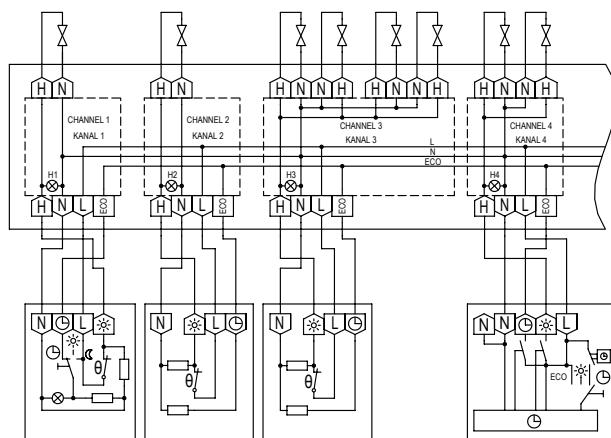


NOTES ON AND EXAMPLES OF WIRING FOR VOOPL TERMINAL STRIPS

1 HEATING SYSTEM WITH MASTER-SLAVE TIME ZONE

The controllers and valve actuators are supplied with power via the terminal strip.

The illustrations shown here refer to de-energized closed valve actuators.



Study

RTBSB-201.075 /
RTBSU-401.075
(slave)

Children's room

RTBSB-201.002 /
RTBSU-401.002
(slave)

Living room

RTBSB-201.002 /
RTBSU-401.002
(slave)

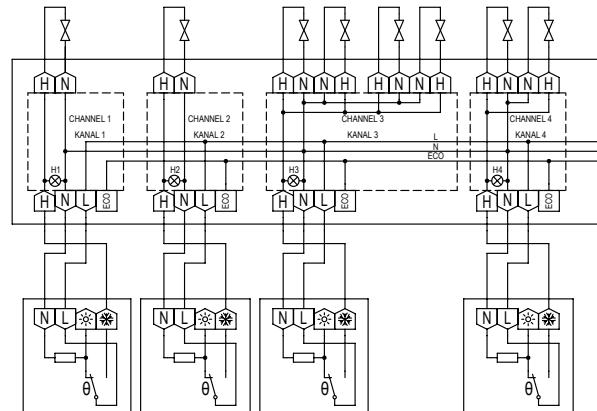
Bedroom

HTRRBu 110.117
(master time zone 2
slave)

2 COOLING SYSTEM

The controllers and valve actuators are supplied with power via the terminal strip.

The illustrations shown here refer to de-energized closed valve actuators.



Study

RTBSB-201.010 /
RTBSU-401.010

Children's room

RTBSB-201.010 /
RTBSU-401.010

Living room

RTBSB-201.010 /
RTBSU-401.010

Bedroom

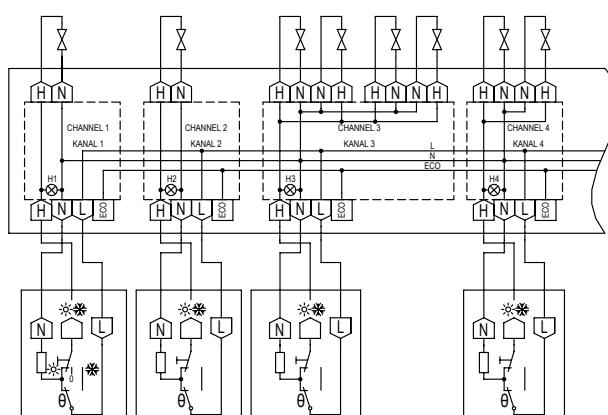
RTBSB-201.010 /
RTBSU-401.010

3 HEATING/COOLING SYSTEMS WITH HEATING/COOLING SWITCHES AT THE CONTROLLERS

The controllers and valve actuators are supplied with power via the terminal strip.

The printing on the heating / cooling change-over switches on the RTBSU-401.065 and

RTBSU-401.063 applies to normally closed valve actuators. The medium status 'hot' or 'cold' must always correspond to the switch settings.



Study RTB-
SU-401.063

Children's room
RTBSB-201.065 /
RTBSU-401.065

Living room
RTBSB-201.065 /
RTBSU-401.065

Bedroom
RTBSB-201.065 /
RTBSU-401.065

NOTES





alre

ALRE-IT
REGELTECHNIK GMBH

Richard-Tauber-Damm 10
12277 Berlin, Germany

Phone: +49(0)30 399 84 0
Fax: +49(0)30 391 70 05
E-mail: mail@alre.de

**alre –
simply
control.**

www.alre.de