

RAIN SENSOR

SA 10 is designed for detecting and monitoring rain in HVAC applications.

supply	24 Vac/dc, < 5 VA
range	weak rain approx. 1 V, 0,5 mm/h
	normal rain approx. 2...3 V
	heavy rain approx. 3...10 V
outputs	0...10 V, < 2 mA
	relay NO 60 Vdc, 0,1 A
ambient temperature range	-40...+50 °C
housing	IP54
mounting	by a band to a mast (Ø 25...60 mm) or by screws on the wall (hole distance 68 mm)



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TYPE	ART NO.	
SA 10	1136020	rain sensor

ELECTRIC POWER REGULATION

BAK 64 binary step controller is designed for controlling electric heating power. It can be used with all systems with 0...10 V outputs. Relays like AR 1 or RY 1 are needed for contact outputs. Power steps must be in binary sequence e.g. 1, 2, 4, 8, 16, 32 kW.

supply	24 Vac, 3 VA
input	0...10 Vdc or 10...0 Vdc, selectable
outputs 1-6	< 40 Vdc 100 mA, valid for AR 1 and RY 1 relays
delay between steps	adjustable, 0,7...60 s
housing	IP20, 11-pole relay housing



TYPE	ART NO.	
BAK 64	1140010	binary step controller
AR 1	1183010	relay, normally open (no) contact 230 Vac, 10 A
RY 1	1183020	relay, change-over contact 230 Vac, 10 A

ELECTRIC POWER REGULATION

STS 4 converts 0...10 V signal to one time proportional and up to 3 contact outputs. Each step must be identical in power.

supply	24 Vac, 1 VA
input	0...10 Vdc < 1 mA
output 1	for solid state relay 15 Vdc < 50 mA, time proportional
outputs 2-4	40 Vdc < 100 mA, valid for AR 1 and RY 1 relays
number of steps	selectable, 1-4 pcs
housing	IP20, 11-pole relay housing



TYPE	ART NO.	
STS 4	1140020	electric power controller
PR 50/440	1140030	solid state relay 230...400 Vac, < 25 A, input 8...32 Vdc
PR 10/440	1140060	solid state relay 230...400 Vac, < 10 A, input 3...32 Vdc
PRMK	1140070	solid state relay control signal converter, Vac -> Vdc
AR 1	1183010	relay, normally open (no) contact 230 Vac, 10 A
RY 1	1183020	relay, change-over contact 230 Vac, 10 A

TEMPERATURE CONTROLLERS

HLS 16 is a 1-stage controller for room temperature control. Both heating and cooling are controlled by using the same valve. The function of the valve can be changed by using external (summer/winter) switch connected to the Z1 terminal.

room °C

supply	24 Vac, 2 VA
set point	+18...+24 °C, ±3°C
accuracy	±0,5 °C
outputs A1 (NC) and A2 (NO)	24 Vac, 1 A for thermal actuator
ambient temperature	0...+50 °C
housing	IP20, ABS plastic
mounting	with screws on wall or on a junction box (hole distance 60 mm)



TYPE	ART NO.	
HLS 16	1150160	controller for floor heating/cooling
HLS 16-N	1150161	with display