

Raychem SBS-XX-SV

CONTROL PANEL FOR PIPE FROST PROTECTION SYSTEMS



DESCRIPTION

The SBS-XX-SV control panel for pipe frost protection systems provides a totally integrated solution for the control of Raychem self-regulating heating cables for frost protection applications. The control panel comprises a line sensing thermostatic control system or ambient sensing control with proportional ambient sensing control (PASC). The SBS-xx-SV panels can switch 3-12 circuits of frost protection heating cables with up to 4 control and sensor inputs. The panel also includes electrical circuit protection devices (C-type circuit breakers) and residual current devices for safety and peace of mind. The panels need only be connected to the 400Vac (3 phase) supply.

ADVANTAGES

Fast connection of multiple circuits directly into the control panel

- No need for additional connections or junction boxes.

3-12 circuit lengths can be connected to 1 panel

Circuit protection and safety devices integrated into the panel

- No need for separate safety devices.

Complete system from the manufacturer.

- System and components specifically selected for high performance frost protection system control.

TECHNICAL DATA

Control	Customer can specify a control method per 3 circuits. - MONT-RayStat-ECO-10 ambient sensing (with PASC). - MONT-RayStat-CONTROL-10 Line sensing. - MONT-RayStat-CONTROL-11 Line sensing with digital display.
Supply voltage	400Vac/230Vac 50/60Hz.
Set temp.	Dependent on controller selection.
Sensor	Ambient sensor (with PASC) or line sensor.
Approval	CE (Approved to IEC 60204-1 and IEC60439-1).
Mains switch	Dependent on selected panel (25A to 100A).
RCD	30mA.
Line circuit breakers	16A (Type C) per heating circuit.
Selector switch	Auto/Manual - Auto = Controller in standard on mode. - Manual = Override of control. All heating circuits powered on.

RELATED PRODUCTS

The SBS-XX-SV control panel is compatible with the Raychem pipe frost protection cables:

FS-A-2X - 150 metres per circuit.

FS-B-2X - 105 metres per circuit.

FS-C-2X - 90 metres per circuit.

FS-C10-2X - 150 metres per circuit (for 180m circuits, please contact Pentair Thermal Management).

INSTALLATION INSTRUCTION

Complete panel wiring information and schematics are provided with the product. All electrical installations must be carried out by an approved electrician in compliance with local electrical requirements and norms.

TECHNICAL DATA

Control	The standard switch cabinets for 3, 6, 9 or 12 heating circuits comprise a steel plate housing and are fully assembled and inspected with turnkey-status wiring.
Paintwork	Structural paint, RAL 7035, light grey
Protection class	IP54
Installation location	Interior
Ambient temperatures	+5°C to +35°C
Cable apertures	Metal panel in base of housing with metric breakaway apertures
Version	acc. to VDE 0660, Part 500 and VBG 4
Mains supply	400Vac/230Vac, 50Hz, 3L/N/PE

Cabinet type			SBS-03-SV	SBS-06-SV	SBS-09-SV	SBS-12-SV	
Number of heating circuits, max.			3	6	9	12	
Housing version			Wall-mounted	Wall-mounted	Wall-mounted	Wall-mounted	
Dimensions	Width	mm	380	600	760	760	
	Height	mm	600	600	760	760	
	Depth	mm	210	210	210	210	
Weight	approx.	kg	20	30	50	52	
Connected rating			kW	11	22	33	42
Electrical protection provided by customer	max.	A	3 x 25A NH-00	3 x 32A NH-00	3 x 63A NH-00	3 x 80A NH-00	

Switch cabinet equipment

Master switch, 3-pole 25 A	Unit	1			
Master switch, 3-pole 32 A	Unit		1		
Master switch, 3-pole 63 A	Unit			1	
Master switch, 3-pole 100 A	Unit				1
Circuit breaker, S 2A	Unit	1	1	1	1
Combination of RCD/CB C 16A, 30 mA, 4-pole, with auxiliary switch	Unit	1	2	3	4
Contactor, 3 x 35A	Unit	1	2	3	4
Auxiliary relay	Unit	1	1	1	1
Switch, 3 positions 1-pole, "Manual-0-Automatic"	Unit	1	2	3	4
"Operating" signal lamp	Unit	1	2	3	4
"Fault" signal lamp	Unit	1	1	1	1

ORDER REFERENCE

Product name	Order reference	Description
SBS-03-SV	355825-000	Up to 3 circuit control panel for Frost Protection Products (WGRD)
SBS-06-SV	778308-000	Up to 6 circuit control panel for Frost Protection Products (WGRD)
SBS-09-SV	767989-000	Up to 9 circuit control panel for Frost Protection Products (WGRD)
SBS-12-SV	1244-000025	Up to 12 circuit control panel for Frost Protection Products (WGRD)



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