PENTAIR

Raychem SBS-XX-EV-10
CONTROL PANEL FOR GUTTER PROTECTION SYSTEMS

DESCRIPTION

The SBS-XX-EV-10 control panel for gutter and downpipe protection systems provides a totally integrated solution for the control of Raychem self regulating heating cables for gutter and roof frost protection applications. The control panel comprises a multi-sensor thermostatic control system including ambient and moisture sensing capability for precision control and energy efficiency. The control panel, driven by the smart Raychem EMDR-10 control device, allows the system only to be activated when cold weather and moisture are detected in combination.

The SBS-xx-EV-10 panels can switch 3-12 maximum circuits GM-2X self regulating heater cable. The panel also includes electrical circuit protection devices (C-type circuit breakers) for safety and peace of mind. The panels need only be connected to the 400Vac (3 phase) supply.

ADVANTAGES

Integrated electrical safety, control, and heater connection within a single unit from the heat tracing manufacturer.

- Energy efficiency through integrated smart control. (EMDR-10 driven control protocol.)
- Fast connection of multiple circuits directly into the control panel
  - No need for additional connections or junction boxes.
- 3-12 maximum 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 gutter and roof frost protection system control..

SBS-XX-EV-10

SUMMARY DATA

Control	Raychem EMDR-10 Smart control device
Power output	230Vac 50/60Hz.
Set temp.	Customer variable
Sensor	Ambient and moisture sensors
Approval	CE (Approved to IEC 60204-1 and IEC60439-1)
Mains switch	Dependent on selected panel
RCD	30mA.
Line Circuit breakers	20A (Type C) per heater circuit
Alarm function	Potential free alarm contact per 3 circuit Alarm light indicator on panel front
Override:	Manual = Override of control. All heater circuits powered on
Approvals	CE marked

RELATED PRODUCTS

The SBS-xx-EV-10 control panel is compatible with the Raychem gutter frost protection cable, IcsStop GM-2X.

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

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
Mains supply	400Vac/230Vac, 50Hz, 3L/N/PE

Cabinet type			SBS-03-EV-10	SBS-06-EV-10	SBS-09-EV-10	SBS-12-EV-10
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	32	52
Connected rating		kW	14	28	42	56
Electrical protection provided by customer	max.	A	3 x 32A NH-00	3 x 40A NH-00	3 x 63A NH-00	3 x 80A NH-00

Switch cabinet equipment

Master switch, 3-pole 32 A	Unit	1			
Master switch, 3-pole 63 A	Unit		1	1	
Master switch, 3-pole 100 A	Unit				1
Circuit breaker, S 2A	Unit	1	1	1	1
Combination of FI-breaker Circuit breaker 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
"Operating" signal lamp	Unit	1	2	3	4
"Fault" signal lamp	Unit	1	1	1	1
EMDR-10	Unit	1	1	1	1

ORDER REFERENCE

Product name	Order reference	Description
SBS-03-EV-10	295014-000	Multi circuit control panel for gutter melting systems
SBS-06-EV-10	458484-000	Multi circuit control panel for gutter melting systems
SBS-09-EV-10	206336-000	Multi circuit control panel for gutter melting systems
SBS-12-EV-10	282458-000	Multi circuit control panel for gutter melting systems

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