



## PRODUCT DESCRIPTION

The nVent RAYCHEM SBS-R-FP control panel for pipe freeze protection systems provides an integrated solution for the control of RAYCHEM self-regulating heating cables for pipe freeze protection applications. The control panel comprises a digital line sensing thermostatic control. The SBS-R-FP panels switch 1, 3, or 6 circuits of self-regulating frost protection heating cables. The panel also includes electrical circuit protection devices (C-type circuit breakers) and residual current devices for safety, peace of mind, and electrical regulation compliance.

## ADVANTAGES

- Integrated electrical safety and control, device for single/multiple heating circuits from the heat tracing manufacturer.
- Line Sensing Thermostat for precise system control and energy efficiency
- Everything in a single control panel. Simply add a power supply.

## CONTROLLER TECHNICAL DATA

|                |  |
|----------------|--|
| Control        | RAYCHEM RayStat-CONTROL-11-DIN control device, pre-installed and electrically connected. |
| Supply voltage | 230Vac 50/60Hz.  |
| Set temp.      | Customer specific at first set-up. (Quick and easy menu driven set-up).                  |
| Sensor         | Pipe temperature sensor, 3 wire PT100.   |

## RELATED PRODUCTS

The SBS-R-FP control panel is compatible with the RAYCHEM pipe freeze protection cables:

| Heater Cable  | Connection Device              |
|---------------|--------------------------------|
| FS-A-2X       | RayClic fast connection device |
| FS-B-2X       | RayClic fast connection device |
| FS-C-2X       | CE20-01                        |
| FS-C10-2X     | CCE-04-CT/CE20-01              |
| FroStop-Green | CCE-03-CR                      |
| FroStop-Black | CCE-03-CR                      |
| R-ETL-A       | CCE-03-CR                      |

## PANEL TECHNICAL DATA

|                       |   |
|-----------------------|---|
| Enclosure Colour      | Light Grey                                      |
| Protection Class      | IP65 Enclosure                                  |
| Installation location | Indoor  |
| Ambient Temperatures  | +5°C to +35°C.                                  |
| Cable Apertures       | Plastic panel with metric Breakaway apertures.  |
| Power Supply          | 400V/230Vac, 50Hz, 3L/N/PE.                     |
| Panel Material        | Plastic Enclosure.                              |
| Panel Approval        | CE (Approved to IEC 61439-1).                   |
| Main switch           | 40A.  |
| RCD                   | 30mA.   |
| Line circuit breakers | 10A or 16A (Type C) See specific panel details. |
| Approvals             | CE marked.                                      |

## ENCLOSURE TYPE

|                               |             | SBS-R-FP-1x10A | SBS-R-FP-3x10A | SBS-R-FP-6x10A | SBS-R-FP-1x16A | SBS-R-FP-3x16A | SBS-R-FP-6x16A |
|-------------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Number of Heating Circuits    |             | 1              | 3              | 6              | 1              | 3              | 6              |
| Dimension                     | Width (mm)  | 310            | 418            | 418            | 418            | 418            | 418            |
|                               | Height (mm) | 246            | 436            | 586            | 286            | 436            | 586            |
|                               | Depth (mm)  | 148            | 148            | 148            | 148            | 148            | 148            |
| Circuit Electrical Protection |             | 1 x 10A        | 3 x 10A        | 6 x 10A        | 1 x 16A        | 3 x 16A        | 6 x 16A        |
| Weight (kg)                   |             | 2.6            | 6.2            | 8.8            | 4              | 6.2            | 8.8            |

## ORDER REFERENCE

| Product Name   | Order Reference | Description   |
|----------------|-----------------|---|
| SBS-R-FP-1x10A | 1244-016629     | Single Circuit pipe freeze protection control panel for RAYCHEM Self-regulating heating cables (10A circuit max.)   |
| SBS-R-FP-3x10A | 1244-016630     | Up to 3 Circuit pipe freeze protection control panel for RAYCHEM Self-regulating heating cables (10A circuits max.) |
| SBS-R-FP-6x10A | 1244-016631     | Up to 6 Circuit pipe freeze protection control panel for RAYCHEM Self-regulating heating cables (10A circuits max.) |
| SBS-R-FP-1x16A | 1244-016626     | Single Circuit pipe freeze protection control panel for RAYCHEM Self-regulating heating cables (16A circuit max.)   |
| SBS-R-FP-3x16A | 1244-016627     | Up to 3 Circuit pipe freeze protection control panel for RAYCHEM Self-regulating heating cables (16A circuits max.) |
| SBS-R-FP-6x16A | 1244-016628     | Up to 6 pipe freeze protection control panel for RAYCHEM Self-regulating heating cables (16A circuits max.)         |

## INSTALLATION INSTRUCTIONS

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.

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