

SBS-XX-CM-20 CONTROL PANEL

FOR SURFACE SNOW MELTING SYSTEMS



DESCRIPTION

The nVent RAYCHEM SBS-XX-CM-20 control panel for ice and snow prevention systems provides a totally integrated electrical safety, connection and control solution for nVent RAYCHEM EM2-CM constant wattage heating mats for surface snow melting applications. The control panel comprises the VIA-DU-20 multi-sensor control unit for energy efficient ground surface heating, and integrated electrical safety devices. The SBS-XX-CM-20 panels offer solutions up to 18 maximum circuits of EM2-CM mats. 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 terminals
 - 3-18 heating circuit can be connected and switched by a single 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 ice and snow prevention system control

TECHNICAL DATA

Control	VIA-DU-20 multi-sensor control unit
Nominal Voltage (Un)	400V (3 Phase)
Rated voltage per heater circuit (Ue)	230V
Sensor	Ground temperature, moisture, and ambient temperature sensors
Approval	CE (Approved to IEC61439)
Supply	Dependent on selected panel (25A-125A)
RCD	30mA
Ambient temperatures	+10°C to +35°C
Line Circuit breakers	20A (Type C) per 3 heater circuit group
Installation Location	Indoor
External protection rating	IP65
Colour	RAL 7035 (Grey)
Enclosure type and material	HOFFMAN Brand (nVent), Metal enclosure
Selector switch	Auto/Manual heating circuit switching
Alarm function	1 general potential free alarm contact; alarm light indicator on panel front

SBS CONTROL PANEL WEIGHT & DIMENSIONS TABLE

Product	Weight (kg)	Length (mm)	Width (mm)	Depth (mm)
SBS-03-CM-20	32	600	400	210
SBS-06-CM-20	45	600	600	210
SBS-09-CM-20	45	600	600	210
SBS-12-CM-20	90	800	800	210
SBS-15-CM-20	90	800	800	210
SBS-18-CM-20	115	1000	800	300

RELATED PRODUCTS

The SBS-XX-CM-20 control panel is compatible with the RAYCHEM EM2-CM heating mats:

RAYCHEM EM2-CM heating mats (300W/m²)

GM-2XT (for drain line heating)*

* The SBS-XX-CM-20 panel includes an additional circuit connection for drain heating capabilities at the edge of heated surfaces or at the lower end of ramps using GM-2XT heating cable (maximum drain line circuit length of 15m).

PRODUCT REFERENCE

To order the SBS-XX-CM-20 control panel, please reference:

Product name	Order reference	Description
1244-006430	SBS-03-CM-20	Up to 3 Circuit control panel for EM2-CM surface heating products
1244-006431	SBS-06-CM-20	4-6 Circuit control panel for EM2-CM surface heating products
1244-006432	SBS-09-CM-20	7-9 Circuit control panel for EM2-CM surface heating products
1244-006433	SBS-12-CM-20	10-12 Circuit control panel for EM2-CM surface heating products
1244-008212	SBS-15-CM-20	13-15 Circuit control panel for EM2-CM surface heating products
1244-008213	SBS-18-CM-20	16-18 Circuit control panel for EM2-CM surface heating products

INSTALLATION INFORMATION

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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