



## HWSE9.1-BL-SW

- hygienic design
- up to 12 positions
- with short or long toggle

## Data

### Ordering data

Product type description	HWSE9.1-BL-SW
Article number (order number)	103041143
EAN (European Article Number)	4030661618210
eCl@ss number, version 12.0	27-37-12-43
eCl@ss number, version 11.0	27-37-12-43
eCl@ss number, version 9.0	27-37-12-43
ETIM number, version 7.0	EC001029
ETIM number, version 6.0	EC001029

### Approvals - Standards

Certificates	hygiene tested
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### General data

Standards	EN IEC 60947-5-1 EN IEC 60204-1 DIN EN 1672-2 ANSI/UL 60947-1 ANSI/UL 60947-4-1A
Versions	Front plate mounting
Design	Round
Toggle	long
Sealing type	Membrane Lip gaskets
Material of the operators	Plastic
Material of the front ring	stainless steel
Colour of the operating element	Black
Colour of the front ring	Silver
Colour of the bellows	Blue
Gross weight	260 g

## General data - Features

Latching	Yes
Number of switch positions	9

## Mechanical data

Mechanical life, minimum	1,000,000 Operations
switching angle	30 °
Mounting	central nut
Tightening torque of nuts, maximum	4 Nm

## Mechanical data - Connection technique

Termination	Screw terminals
Cable section, minimum	1 mm <sup>2</sup> , rigid 1 mm <sup>2</sup> , flexible

Cable section, maximum	2.5 mm <sup>2</sup> , rigid 2.5 mm <sup>2</sup> , flexible
Note	All indications including the conductor ferrules.
Wire cross-section	12 AWG
Tightening torque of Clips	2.5 Nm

## Mechanical data - Dimensions

Note (Mounting height)	Height in front of the front panel.
Mounting depth	104 mm
Note (Mounting depth)	Depth behind front panel including cam switch
diameters for the actuating heads	45 mm
Length of the handle	52.5 mm
Mounting diameter	22.3 mm
Thickness, of the front panel, minimum	1.5 mm
Thickness of the front panel, maximum	6 mm

## Ambient conditions

Degree of protection	IP67 IP69K
Ambient temperature	+0 ... +80 °C

## Ambient conditions - Insulation values

Rated impulse withstand voltage $U_{imp}$	4 kV
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## Electrical data

Thermal test current	20 A
Rated operating voltage	690 VAC
Required rated short-circuit current	10,000 A
Switching principle	Slow action

Other data

Note (applications)

Rotary Cam Switch, Product line M200, Type series M220, Front mounting switch

Scope of delivery

Note (scope of delivery, number and type)

Contact carier SMF-SG is included in delivery

Pictures

Product picture (catalogue individual photo)



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| 396.5 kB | .jpg | 352.778 x 639.233 mm - 1000 x 1812 px - 72 dpi

| 55.5 kB | .png | 74.083 x 134.056 mm - 210 x 380 px - 72 dpi

| 32.5 kB | .jpg | 68.086 x 123.472 mm - 193 x 350 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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