



## BDF200-B-11-DTWH-DTWH-B

- slender shock-proof thermoplastic enclosure
- to be installed at an ergonomic favourable position
- to be fitted to commercial-off-the-shelf aluminium profiles
- Thermoplastic enclosure
- slender shock-proof enclosure
- large range of illuminated pushbuttons, Selector switches, LED indicator lights, Key-operated selector switches and Emergency-Stop buttons
- Emergency stop, on/off and reset functions available
- The position of the pushbuttons on the control panel can be freely selected.
- Field labelling with separate plastic cover
- Freely installable button caps for an optimal adaptation to the plants

## Data

### Ordering data

Product type description	BDF200-B-11-DTWH-DTWH-B
Article number (order number)	101215834
eCl@ss number, version 12.0	27-37-12-16
eCl@ss number, version 11.0	27-37-12-16
eCl@ss number, version 9.0	27-37-12-16
ETIM number, version 7.0	EC000225
ETIM number, version 6.0	EC000225
Note (Ordering data)	Notice: see ordering code

### Approvals - Standards

Certificates

cULus

### General data

Standards	EN IEC 60947-5-1 EN IEC 60947-1
Climatic stress	IEC 60068-2-30
Versions	Assembly housing
Housing material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Positions used, position 1	blanking plug
Positions used, position 2	Pushbutton, white
Positions used, position 3	Pushbutton, white
Positions used, position 4	Blanking plug
Gross weight	280 g

### General data - Features

Emergency-Stop button	Yes
Safety functions	Yes
Removable Terminals	Yes
Number of cable wires	16

### Safety classification

Standards	EN ISO 13849-1
Mission time	20 Year(s)

### Safety classification - Safety outputs

B <sub>10D</sub> Normally-closed contact (NC)	100,000 Operations
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### Mechanical data

Position of the cable gland	bottom
Mechanical life, Emergency-Stop button	100,000 Operations
Mechanical life, Command devices	1,000,000 Operations

Mechanical life, Key operated- selector switch	30,000 Operations
Actuating stroke	3 mm
Actuating force, maximum	8 N
Note (Actuating force)	each contact
Contact force, typically	1 N
Mounting	interior mounting holes
Type of the fixing screws	2x M5
Tightening torque of the fastening screws for the housing cover, minimum	0.7 Nm
Tightening torque of the fastening screws for the housing cover, maximum	0.8 Nm
Tightening torque of the cable gland, maximum	4 Nm
Note	Maximum tightening cable gland cap nut 3 Nm

### Mechanical data - Connection technique

Cable entry	M20 cable gland
Cable cross-section of the cable glands, minimum	6 mm
Cable cross-section of the cable glands, maximum	13 mm
Wire cross-section	0.5 mm <sup>2</sup>
Terminal (mechanical)	Removable screw terminals

### Mechanical data - Dimensions

Width	40 mm
Height	50 mm
Depth	249 mm

### Ambient conditions

Degree of protection	IP65
Ambient temperature	-25 ... +65 °C
Resistance to vibrations	10 ... 100 Hz, with 20 g
Resistance to shock	100 g / 6 ms

## Ambient conditions - Insulation values

Rated insulation voltage $U_i$	250 VAC
Rated impulse withstand voltage $U_{imp}$	2.5 kV
Overvoltage category	III
Overvoltage category	III
Degree of pollution	3

## Electrical data

Thermal test current	2 A 2.5 A
LED current consumption (operating elements)	16 mA
Rated operating voltage	24 VDC
Utilisation category AC-15	24 VAC
Utilisation category AC-15	2 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	1 A
External wire and device fuse rating	2.5A T
Suitable for low-voltages	$\geq 5 \text{ V} / \geq 1 \text{ mA}$
Switching principle	Slow action cross-point-system
Maximum switching frequency	1,200 /h
Material of the contacts, electrical	Ag-Ni 10, gold-plated

## Status indication

Colour of the indicator lamp	without (Blanking plug, black)
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## Other data

Note (applications)	Suitable for 40 mm profiles
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## Ordering code

Product type description:  
BDF 200-(1)-(2)-(3)-(4)-(5)-(6)

(1)

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<b>NH</b>	Emergency stop pushbutton without protective collar
<b>NHK</b>	Emergency stop with protective collar
<b>LT..</b>	Selection (Color Illuminated pushbutton)
<b>LM..</b>	Indicator light (selection colour)
<b>DT..</b>	Push button (Selection Color)
<b>PT..</b>	Mushroom push button

(2)

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<b>20</b>	with EMERGENCY-STOP: 2 NO position 2-4 > without EMERGENCY STOP: 2 NO position 1-4
<b>11</b>	with EMERGENCY-STOP: 1 NO/1 NC position 2-4 > without EMERGENCY STOP: 1 NO/1 NC position 1-4
<b>10</b>	with EMERGENCY-STOP: 1 NO position 2-4 > without EMERGENCY STOP: 1 NO position 1-4

(3)

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<b>WS 2/3</b>	Selector switch, 2/3 switch position
<b>WT 2/3</b>	Selector switch, 2/3 switch positions
<b>SW 20</b>	Key switch/button, 2 switch positions
<b>LT..</b>	Illuminated control push button (selection colour)
<b>LM..</b>	Indicator light (selection colour)
<b>DT..</b>	Push button (Selection Color)
<b>PT..</b>	Mushroom push button

(4)

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<b>WS 2/3</b>	Selector switch, 2/3 switch position
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<b>SW 20</b>	Key switch/button, 2 switch positions
<b>LT..</b>	Illuminated control push button (selection colour)
<b>LM..</b>	Indicator light (selection colour)
<b>DT..</b>	Push button (Selection Color)

<b>PT..</b>	Mushroom push button
(5)	
<b>LT..</b>	Illuminated control push button (selection colour)
<b>LM..</b>	Indicator light (selection colour)
<b>DT..</b>	Push button (Selection Color)
<b>PT..</b>	Mushroom push button
(6)	
<b>without</b>	without indicator lamp
<b>G24</b>	with indicator lamp, red (only for -10)
(7)	
<b>without</b>	Included in standard version
<b>2875</b>	Freely installable button caps

## Pictures

### Product picture (catalogue individual photo)



ID: kbdf2f01

| 804.1 kB | .jpg | 182.739 x 833.261 mm - 518 x 2362 px - 72 dpi

| 212.5 kB | .png | 74.083 x 337.608 mm - 210 x 957 px - 72 dpi

| 24.5 kB | .jpg | 27.164 x 123.472 mm - 77 x 350 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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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