



BDF200-FB-NH-LT-LT-LT-2875

- integrated FB interface for connection to the Safety-Field-Box SFB
- Pos 1: E-STOP
- Pos 2: illuminated pushbutton 2875 with changeable colors
- Pos 3: illuminated pushbutton 2875 with changeable colors
- Pos 4: illuminated pushbutton 2875 with changeable colors
- slender shock-proof thermoplastic enclosure
- to be installed at an ergonomic favourable position
- to be fitted to commercial-off-the-shelf aluminium profiles
- E-STOP with electronic OSSDs

Data

Ordering data

Product type description	BDF200-FB-NH-LT-LT-LT-2875
Article number (order number)	103015447
EAN (European Article Number)	4030661509648
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

Approvals - Standards

Certificates	TÜV cULus EAC
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General data

Standards	EN ISO 13849-1 EN ISO 13850 EN IEC 60947-5-1 EN IEC 60947-5-5 EN IEC 61508
Climatic stress	IEC 60947-5-5
Terminal (mechanical)	Connector plug M12, 8-pole, A-coded
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	280 g
Reaction time, maximum	50 ms
Duration of risk, maximum	100 ms
Positions used, position 1	Emergency stop pushbutton
Positions used, position 2	Illuminated pushbutton, color exchangeable
Positions used, position 3	Illuminated pushbutton; color exchangeable
Positions used, position 4	Illuminated pushbutton, color exchangeable

General data - Features

Serial diagnostics	No
Field box interface	YN_FIELDBOX_INTERFACE1
Indicator lamp	No
Safety functions	Yes

Safety classification

Standards	EN ISO 13849-1 EN IEC 61508
Performance Level, up to	e
Category to EN ISO 13849	4
PFH value	2.89×10^{-10} /h
Note (PFH-value)	up to max. 5,000 switching cycles/year

Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Mechanical data

Mechanical life, Emergency-Stop button	100,000 Operations
Mechanical life, Command devices	1,000,000 Operations

Mechanical data - Dimensions

Width	40 mm
Height	69 mm
Length x Width x Height	Depth: 233.5 - 252.5 mm (without and with indicator lamp)

Ambient conditions

Degree of protection	IP64
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+65 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+85 °C
Resistance to vibration to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm / 5 g
Resistance to shock	30 g / 11 ms
Protection class	III

Ambient conditions - Insulation values

Rated insulation voltage U_i	32 VDC
Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution to VDE 0100	3

Electrical data

Current consumption at 24V	5 mA
No-load supply current I_0 , maximum	35 mA
Rated operating voltage	24 VDC –15 % / +10 % (PELV to IEC 60204-1)
Operating current	150 mA 600 mA
Required rated short-circuit current to EN 60947-5-1	100 A
Utilisation category DC-12	24 VDC
Utilisation category DC-12	0.25 A
Utilisation category DC-13	24 VDC
Utilisation category DC-13	0.25 A
Inputs, Switching thresholds	–3 V ... 5 V (Low) 15 V ... 30 V (High)

Electrical data - Safety digital outputs

Rated operating current (safety outputs)	250 mA
Design of control elements	short-circuit proof, p-type
Voltage drop U_d , maximum	1 V
Leakage current I_r , maximum	0.5 mA

Pictures

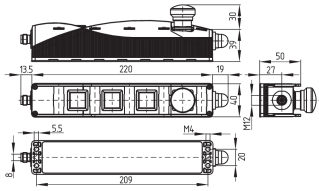
Product picture (catalogue individual photo)



ID: kbdf2f03

| 1.5 MB | .jpg | 352.778 x 802.217 mm - 1000 x 2274 px - 72 dpi
| 26.1 kB | .png | 22.013 x 50.038 mm - 260 x 591 px - 300 dpi
| 125.1 kB | .png | 74.083 x 168.275 mm - 210 x 477 px - 72 dpi

Dimensional drawing basic component



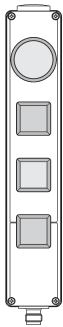
ID: 1bdf2g03

| 358.0 kB | .cdr |

| 14.8 kB | .png | 74.083 x 51.506 mm - 210 x 146 px - 72 dpi

| 164.7 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695 px - 72 dpi

Clipart

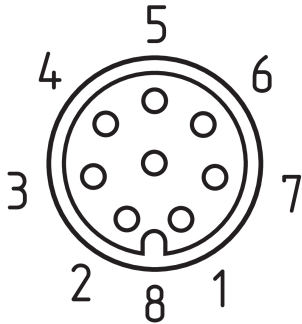


ID: kbdf-c03

| 64.1 kB | .cdr |

| 7.7 kB | .png | 74.083 x 404.989 mm - 210 x 1148 px - 72 dpi

Contact arrangement



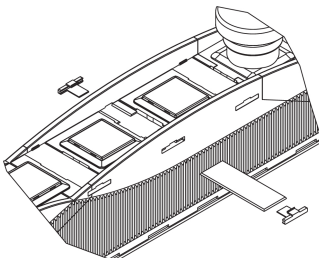
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| 18.0 kB | .cdr |

| 5.5 kB | .png | 73.731 x 79.728 mm - 209 x 226 px - 72 dpi

| 155.6 kB | .jpg | 352.778 x 380.647 mm - 1000 x 1079 px - 72 dpi

Operating principle



ID: kbdf-a08

| 284.5 kB | .jpg | 352.778 x 281.517 mm - 1000 x 798 px - 72 dpi

| 5.0 kB | .png | 74.083 x 59.267 mm - 210 x 168 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.

Generated on: 10/18/2022, 11:55 AM