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

Control panels / BDF200-SD/FB





(Minor differences between the printed image and the original product may exist!)

- Integrated FB interface for command and signaling devices
- Device version for connection to a Safety-Field-Box SFB
- E-STOP with electronic OSSDs
- · Thermoplastic enclosure
- slender shock-proof enclosure
- to be fitted to commercial-off-the-shelf aluminum profiles
- Connector M12, 8-pole

Ordering details

Product type description

Article number

notice

eCl@ss

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

103015447

Approval

Approval



Classification

Standards

Control category

PFH value

- notice

SIL

PL

Mission time

EN ISO 13849-1, IEC 61508

up e

up 4

2.89 x 10-10/h

up to max. 5.000 switching cycles/year

up 3

20 Years

Global Properties

Product name BDF200-FB

Standards IEC 60947-5-1, IEC 60947-5-5, ISO 13850, ISO 13849-1, IEC 61508

Climatic stress to EN 60068-2-30

Material of the housings Plastic, glass-fibre reinforced thermoplastic, self-extinguishing

Weight 340 g

Positions used

- Position 1 NH, Emergency stop

Position 2
 Position 3
 Position 3
 Position 4
 LT-2875, Illuminated pushbutton
 LT-2875, Illuminated pushbutton

Response time < 50 ms

Duration of risk ≤ 100 ms

Mechanical data

termination connector plug M12, 8-pole, A-coded

Mechanical life

- Emergency-Stop button- Command devices100.000 operations1.000.000 operations

restistance to shock 30 g / 11 ms

Resistance to vibration 10 ... 150 HZ, Amplitude 0,35 mm / 5 g

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +65 °C

Storage and transport temperature

Min. Storage and transport temperature
 Max. Storage and transport temperature
 Protection class
 Protection rating

Air clearances and creepage distances To IEC/EN 60664-1

Rated impulse withstand voltage
 Rated insulation voltage
 Overvoltage category
 Degree of pollution
 32 VDC
 III
 33

Electrical data

Rated operating voltage 24 VDC -15 % / +10 %

(PELV to IEC 60204-1)

Operating current 0,6 A
No-load current 35 mA
Required rated short-circuit current 100 A

Electrical data - Safety inputs

Safety inputs X1 and X2

Rated operating voltage 24 VDC -15 % / +10 %

Switching thresholds $$-3\ V\ ...\ 5\ V\ (low)$$

15 V ... 30 V (High)

Operating current 5 mA / 24 V

Electrical data - Safety outputs

Safety outputs Y1 and Y2

Design of control output short-circuit proof, p-type Rated operating voltage 24 VDC -15 % / +10 %

Residual current \leq 0,5 mA Operating current 0,25 A

Minimum operating current

Utilisation category DC-12: Ue/le: 24 VDC / 0,25 A,

DC-13: Ue/le: 24 VDC / 0,25 A

Voltage drop < 1 V

Electrical data - Diagnostic output

Serial diagnostics (Y/N) Yes

Design of control output short-circuit proof, p-type Rated operating voltage 24 VDC -15 % / +10 %

Operating current 0,15 A
Wiring capacitance max. 50 nF

LED switching conditions display

LED switching conditions display (Y/N) No

ATEX

Explosion protection categories for gases

None
Explosion protected category for dusts

None

Dimensions

Dimensions

- Width- Height40 mm69 mm

- Depth 233.5 ... 252.5 mm (without and with Indicator lamp)

Documents

Operating instructions and Declaration of conformity (nl) 880 kB, 05.12.2018

Code: mrl_bdf200sd_nl

Operating instructions and Declaration of conformity (pt) 891 kB, 30.11.2018

Code: mrl_bdf200sd_pt

Operating instructions and Declaration of conformity (es) 891 kB, 30.11.2018

Code: mrl_bdf200sd_es

Operating instructions and Declaration of conformity (pl) 922 kB, 14.09.2018

Code: mrl_bdf200sd_pl

Operating instructions and Declaration of conformity (de) 850 kB, 05.11.2018

Code: mrl_bdf200sd_de

Operating instructions and Declaration of conformity (it) 907 kB, 13.09.2018

Code: mrl_bdf200sd_it

Operating instructions and Declaration of conformity (fr) 891 kB, 29.11.2018

Code: mrl_bdf200sd_fr

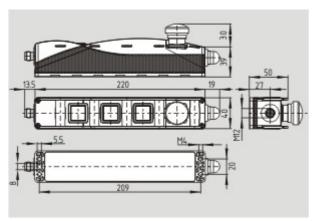
Operating instructions and Declaration of conformity (en) 876 kB, 05.11.2018

Code: mrl_bdf200sd_en

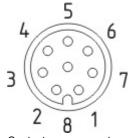
TÜV certification (de) 596 kB, 23.10.2017

Code: z_bdfp02

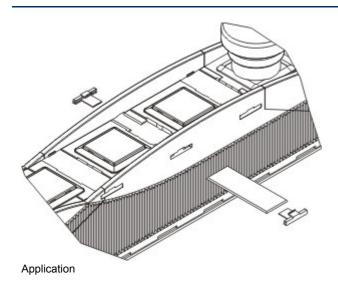
Images

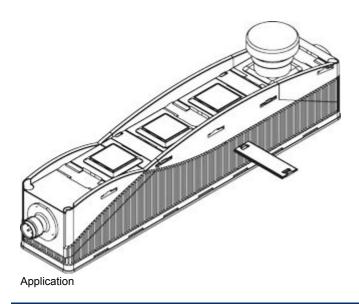


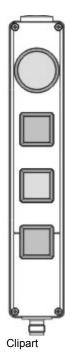
Dimensional drawing (basic component)



Contact arrangement







K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 12:58:22h Kasbase 3.3.0.F.64I