Datasheet - BDF 200 AS



AS interface safety at work / Safety switchgear / Control panels and Emergency-Stop button / BDF 200 AS



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

- Thermoplastic enclosure
- slender shock-proof enclosure
- to be fitted to commercial-off-the-shelf aluminium profiles
- to be installed at an ergonomic favourable position
- large range of Illuminated pushbuttons, Selector switches, LED indicator lights, Key-operated selector switches and Emergency-Stop buttons
- Integrated AS-Interface Safety Slave for emergency stop and A/B Slave for command and signalling devices
- Emergency stop, on/off and reset functions available
- Two-layer plastic identification labels can be used (engravements on request)
- AS-Interface M12 connector Optional bottom or above
- · Suitable for AS-i Power24

Ordering details

Product type description

Article number

notice

eCl@ss

BDF200AS BDF200AS

see ordering code

Approval

Approval



Classification

Standards

PL

Control category

PFH value

- notice

SIL

Mission time

EN ISO 13849-1, IEC 61508

up e

up 4

1.4 x 10-8/h

up to max. 5.000 switching cycles/year

up 3

20 Years

Global Properties

Permanent light BDF200AS

Standards EN 60947-5-1, EN ISO 13850, EN ISO 13849-1, IEC 61508, EN 50295

Climatic stress to DIN EN 60068

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

Positions used

- Position 1 Command device (see ordering code)

Position 2
 Position 3
 Command and signalling devices (see ordering code)
 Command and signalling devices (see ordering code)

- Position 4 Command and signalling devices (see ordering code)

Response time < 100

Mechanical data

Cable entry 1x M12

Mechanical life

- Emergency-Stop button 100.000 operations- Command devices 1.000.000 operations

restistance to shock 15 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

Storage and transport temperature

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

Protection rating II, Double-insulated

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

Rated impulse withstand voltage U_{imp}
 Rated insulation voltage U_i
 Overvoltage category
 Degree of pollution

Electrical data - AS interface

AS-i Supply voltage 18 ... 31.6 VDC, Protection against polarity reversal

- Min. supply voltage 18
- Max. supply voltage 31.6
AS-i operating current ≤ 150

- AS electronics

- Total

AS-i Device insulation internally short-circuit proof

AS-i Specification Safety Slave

- version V 3.0
- Profile S-7.B.F.F

AS-i Inputs

Channel 1
 Data bits DI 0/DI 1= dynamic code transmission
 Channel 2
 Data bits DI 2/DI 3= dynamic code transmission

AS-i Outputs

- DO 0 Indicator lamp G24 red - DO 1 Indicator lamp G24 green - DO 2 not used - DO 3 not used AS-i Parameter bits P0 ... P3 not used **AS-i Specification** A/B slave V 3.0 - version S-7.A.7.F - Profile AS-i Inputs - DI 0 Command device Position 4 Command device Position 3 - DI 1 Command device Position 2 - DI 2 - DI 3 Command device Position 2 AS-i Outputs - DO 0 Illuminated signal Position 4 - DO 1 Illuminated signal Position 3 - DO 2 Illuminated signal Position 2 - DO 3 not used AS-i Parameter bits P0 ... P3 not used PO not used P1 not used P2 not used Р3 not used AS-i input module address - Default on address 0, programmable via the AS-Interface Master or Hand-held programming device notice Both AS-i slaves can be enabled and disabled through the integrated DIP switch. The addressing must take place via the M12 connector. LED switching conditions display LED switching conditions display (Y/N) No **Dimensions Dimensions** - Width 40 mm - Height 69 mm - Depth 233.5 ... 252.5 mm (without and with Indicator lamp) Pin assignment AS interface + 1 2 None 3 AS interface -4 None **Ordering code** BDF 200-(1)-AS-(2)-(3)-(4)-(5)-(6) (1)

connector plug M12, bottom

connector plug M12, above

Position 1 - Command devices

Emergency stop latching pushbutton without Protective collar

(2) NH

ST1

ST2

NHK

Emergency stop latching pushbutton with Protective collar

(3) WS 2/3

WT 2/3 SW 20

LT.. LM..

DT..

(4)

LT.. LM..

DT..

(5)

LT.. LM..

DT..

(6)

without **G24**

Position 2 - Command and signalling devices

Selector switch, 2/3 switch position

Selector switch, 2/3 switch position

Key switch / - key button, 2 switch position Illuminated pushbutton (Selection Color) Illuminated signal (Selection Color)

Push button (Selection Color)

Position 3 - Command and signalling devices

Illuminated pushbutton (Selection Color) Illuminated signal (Selection Color) Push button (Selection Color)

Position 4 - Command and signalling devices

Illuminated pushbutton (Selection Color) Illuminated signal (Selection Color) Push button (Selection Color)

without Indicator lamp G24 with Indicator lamp G24

Documents

Operating instructions and Declaration of conformity (nl) 822 kB, 29.11.2018

Code: mrl bdf200as nl

Operating instructions and Declaration of conformity (fr) 831 kB, 29.11.2018

Code: mrl_bdf200as_fr

Operating instructions and Declaration of conformity (it) 813 kB, 26.06.2017

Code: mrl_bdf200as_it

Operating instructions and Declaration of conformity (en) 824 kB, 05.11.2018

Code: mrl_bdf200as_en

Operating instructions and Declaration of conformity (de) 792 kB, 05.11.2018

Code: mrl_bdf200as_de

Operating instructions and Declaration of conformity (jp) 853 kB, 15.09.2014

Code: mrl_bdf200as_jp

Operating instructions and Declaration of conformity (pl) 829 kB, 17.03.2017

Code: mrl_bdf200as_pl

Operating instructions and Declaration of conformity (pt) 828 kB, 05.12.2018

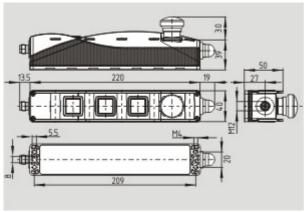
Code: mrl_bdf200as_pt

Operating instructions and Declaration of conformity (es) 833 kB, 29.11.2018

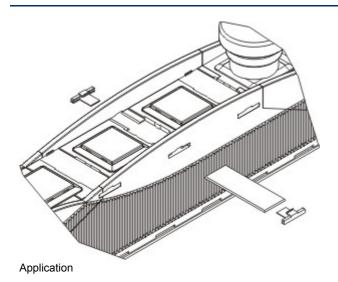
Code: mrl_bdf200as_es

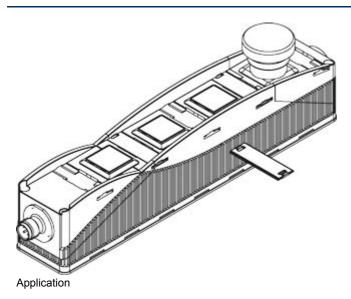
TÜV certification (de) 401 kB, 20.01.2017

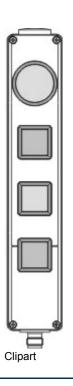
Code: z_bdfp01



Dimensional drawing (basic component)







System components

Control elements



NHK

- Emergency stop latching pushbutton
- mushroom-shaped plastic pushbutton, Ø 30 mm
- Pull to reset
- with Protective collar





- · Illuminated signal
- with concave button
- Touch surface 19 x 19
- Lamp replacement at the front
- 5 different colours available



Illuminated signal / LM

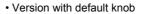
- Illuminated signal
- with concave illuminated surface
- Illuminated surface 19 x 19
- Lamp replacement at the front
- 5 different colours available
- LED replacement at the front

Push button / DT

- Push button
- with concave button
- Touch surface 19 x 19
- 1 Normally open contact (NO)
- 7 different colours available

Selector switch / Selector switch W0

• Selector switch / Selector switch







Key - Selector switch / Selector switch SW20

- Key Selector switch / Selector switch
- Version with high-grade cylinder lock therefore here also IP65

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 - 12:39:04h Kasbase 3.3.0.F.64I