

BDF200-ST1-AS-NH-SWS20-LTWH-LTBU



- **Pos 1: E-STOP**
- **Integrated AS-Interface**
- **with connector plug M12 bottom**
- **Pos 4: BLUE illuminated pushbutton**
- **Pos 3: WHITE illuminated pushbutton**
- **Pos 2: Key selector switch, 2 positions**
- **slender shock-proof thermoplastic enclosure**
- **to be installed at an ergonomic favourable position**
- **to be fitted to commercial-off-the-shelf aluminium profiles**

Data

Ordering data

Product type description	BDF200-ST1-AS-NH-SWS20-LTWH-LTBU
Article number (order number)	103034373
EAN (European Article Number)	4030661535418
eCl@ss number, Version 9.0	27-33-02-04
eCl@ss number, Version 11.0	27-33-02-04
ETIM number, version 6.0	EC001415

Approval - Standards

Certificates	TÜV cULus ASi-SaW EAC
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General data

Product name	BDF200AS (Preferred types)
Standards	IEC 61508 ISO 13849-1 EN 60947-5-1 EN ISO 13850 EN 62026-2

Climatic stress	DIN EN 60068
Enclosure material	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
Gross weight	280 g
Reaction time, maximum	100 ms
Positions used, position 1	Emergency stop pushbutton
Positions used, position 2	Key-operated switch, 1 latching position and 1 zero position
Positions used, position 3	Illuminated pushbutton, white
Positions used, position 4	Illuminated pushbutton, blue

General data - Features

Indicator lamp	No
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Safety appraisal

Standards	IEC 61508
Performance level, up to	e
Control category to EN13849	4
PFH-value	1.40×10^{-8} /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 - Connection technique

Terminal Connector	Connector plug M12, 4-pole, (A-coding)
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Mechanical data - Dimensions

Width	40 mm
Height	69 mm
Depth	252.5 mm

Ambient conditions

Degree of protection	IP65
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 vibrations to EN 60068-2-6	10 ... 150 Hz, amplitude 0.35 mm / 5 g
Resistance to shock	15 g / 11 ms
Protection rating	II

Ambient conditions - Insulation value

Rated impulse withstand voltage U _{imp}	0.8 kV
Overvoltage category	III
Degree of pollution to IEC/EN 60664-1	3

Electrical data - AS Interface

AS-i Operating voltage, minimum	18 VDC
AS-i Operating voltage AS-i maximum	31.6 VDC
Note (AS-i Operating voltage)	Protection against polarity reversal
AS-i Current consumption, maximum	150 mA

Electrical data - AS-Interface specification

Note (AS-i Parameter bits)	Set the parameter outputs to "1111" (0xF) FID: periphery error
AS-i Version (Safety-Slave)	V 3.0
AS-i Profile (Safety-Slave)	S-7.B.F.F
AS-i Input, Channel 1 (Safety-Slave)	Data bits DI 0 / DI 1 = dynamic code transmission
AS-i Input, Channel 2 (Safety-Slave)	Data bits DI 2 / DI 3 = dynamic code transmission
AS-i Output, DO 0 (Safety-Slave)	Indicator lamp G24 red
AS-i Output, DO 1 (Safety-Slave)	Indicator lamp G24 green
AS-i Output, DO 2 (Safety-Slave)	No Function
AS-i Output, DO 3 (Safety-Slave)	No Function
AS-i AS-i Parameter bits (Safety-Slave), P0 ... P3	No function
AS-i Version (A/B Slave)	V 3.0
AS-i Profile (A/B Slave)	S-7.A.7.F
AS-i Input, DI 0 (A/B Slave)	Command device Position 4
AS-i Input, DI 1 (A/B Slave)	Command device Position 3
AS-i Input, DI 2 (A/B Slave)	Command device Position 2
AS-i Input, DI 3 (A/B Slave)	Command device Position 2
AS-i Output, DO 0 (A/B Slave)	Illuminated signal position 4
AS-i Output, DO 2 (A/B Slave)	Illuminated signal position 2
AS-i Output, DO 1 (A/B Slave)	Illuminated signal position 3
AS-i Output, DO 3 (A/B Slave)	No Function

AS-i AS-i Parameter bits (A/B Slave), P0 ... P3	No function
AS-i Input module address	0
Note (AS-i Input module address)	Preset to address 0, can be changed through AS-interface bus master or hand-held programming device
Note	Both AS-i slaves can be enabled and disabled through the integrated DIP switch. The addressing must take place via the M12 connector.

Pin assignment

PIN 1	AS-Interface +
PIN 2	n.c.
PIN 3	AS-Interface -
PIN 4	n.c.

Ordering code

Product type description:

BDF 200-(1)-AS-(2)-(3)-(4)-(5)-(6)

(1)

ST1 Connector plug M12 - plastic - bottom

ST2 Connector plug M12, above

(2)

NH Emergency stop pushbutton without protective collar

NHK Emergency stop with protective collar

(3)

WS 2/3 Selector switch, 2/3 switch position

WT 2/3 Selector switch, 2/3 switch positions

SW 20 Key switch/button, 2 switch positions

LT.. Illuminated control push button (selection colour)

LM.. Indicator light (selection colour)

DT.. Push button (Selection Color)

(4)

LT.. Illuminated control push button (selection colour)

LM.. Indicator light (selection colour)

DT.. Push button (Selection Color)

(5)

LT.. Illuminated control push button (selection colour)

LM.. Indicator light (selection colour)

DT.. Push button (Selection Color)

(6)

without without indicator lamp G24

G24 with indicator lamp G24

Pictures

Product picture (catalogue individual photo)



ID: kbdf2f03

| 1,5 MB | .jpg | 352.778 x 802.217 mm - 1000 x 2274

Pixel - 72 dpi

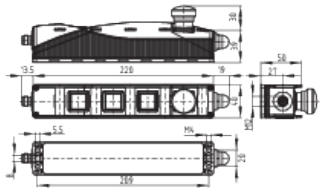
| 125,1 kB | .png | 74.083 x 168.275 mm - 210 x 477

Pixel - 72 dpi

| 26,1 kB | .png | 22.013 x 50.038 mm - 260 x 591

Pixel - 300 dpi

Dimensional drawing basic component



ID: 1bdf2g03

| 358,0 kB | .cdr |

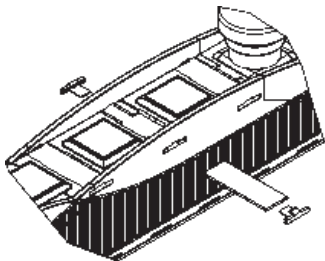
| 164,7 kB | .jpg | 352.778 x 245.181 mm - 1000 x 695

Pixel - 72 dpi

| 14,8 kB | .png | 74.083 x 51.506 mm - 210 x 146

Pixel - 72 dpi

Operating principle



ID: kbdf-a08

| 5,0 kB | .png | 74.083 x 59.267 mm - 210 x 168 Pixel
- 72 dpi

| 284,5 kB | .jpg | 352.778 x 281.517 mm - 1000 x 798

Pixel - 72 dpi

Clipart



ID: kbdf-c03

| 64,1 kB | .cdr |

| 7,7 kB | .png | 74.083 x 404.989 mm - 210 x 1148

Pixel - 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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