



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

- with connector plug M12 bottom
- Integrated AS-Interface
- Pos 1: E-STOP
- Pos 3: WHITE illuminated pushbutton
- Pos 2: Key selector switch, 2 positions
- Pos 4: BLUE illuminated pushbutton
- 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

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

Standards	IEC 61508 EN 60947-5-1 EN ISO 13850 EN 62026-2 EN ISO 13849-1
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
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Mechanical life, Command devices	1,000,000 Operations
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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 insulation voltage U_i	32 VDC
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.

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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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