



BDF200-ST1-AS-NH-SWS20S1-LTYE-DTWH-G24

- Integrated AS-Interface
- with connector plug M12 bottom
- Pos 1: E-STOP
- Pos 2: Key selector switch, 2 positions, key removable position 0
- Pos 3: YELLOW illuminated pushbutton
- Pos 4: WHITE pushbutton
- Indicator lamp G24 on top
- 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)	4030661423531
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 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, key removal position in position 0
Positions used, position 3	Illuminated pushbutton, yellow
Positions used, position 4	Pushbutton, white

General data - Features

Indicator lamp	Yes
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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-Stopbutton	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 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.

Generated on: 11/9/2021, 11:16 AM