Dimensions

Electrical connection

AS-Interface +

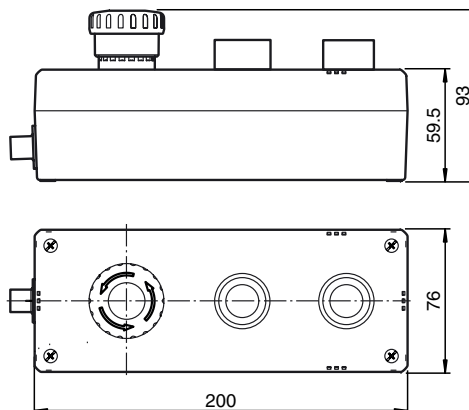1

2 · 4

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AS-Interface -

Model number

VAA-4E3A-F85B-S-V1

AS-Interface EMERGENCY STOP Handheld
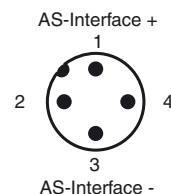with EMERGENCY STOP and specified buttons

Features

- Control and display unit with EMERGENCY STOP and two illuminated function keys

- Button marking with Start, Stop and Emergency Stop (can be changed)

- Self-monitoring EMERGENCY STOP button with prestressed contacts and TÜV approval

- EMERGENCY STOP unlocking by turning or pulling

- Outwit-proof according to ISO 13850/EN 418

- M12 plug connection

Technical data

General specifications		
Slave type		Safety-Slave
AS-Interface specification		V2.1
Required master specification		≥ V2.1
Functional safety related parameters		
$MTTF_d$		200 a
B_{10d}		1 E+5
Electrical specifications		
Rated operational voltage	U_e	26.5 ... 31.6 V from AS-Interface
Rated operational current	I_e	≤ 25 mA
Protection class		III
Insulation resistance		≥ 100 MΩ
Ambient conditions		
Ambient temperature		-25 ... 50 °C (-13 ... 122 °F) (no freezing)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Relative humidity		40 ... 85 % , noncondensing
Mechanical specifications		
Operating force		Push: 32 N Pull: 21 N Turn: 0.27 Nm Minimum for positive opening operation: 60 Nm
Operating distance		for positive opening operation: min. 4 mm maximal: 4.5 mm
Protection degree		IP65
Connection		M12 round connector
Material		
Housing		PC (Polycarbonate)
Life span		> 250,000 switching operations
Compliance with standards and directives		
Directive conformity		
EMC Directive 89/336/EEC		EN 61000-6-2:2005, EN 61000-6-4:2001, EN 50295:1999
Standard conformity		
Electromagnetic compatibility		EN 61000-6-2:2005, EN 61000-6-4:2001, EN 50295:1999
Functional safety		EN 954-1:1996, EN 62061:2005, EN 61508 Parts 1-7:1998-2000, NFPA 79:2002, EN 60204-1:2006
Electrical safety		EN 60947-5-5:2005

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Notes

	Slave 1	Slave 2	Slave 3
General data			
Operating element	EMERGENCY STOP	STOP button	START button
Slave type	Safety slave	Standard slave	Standard slave
Address (on delivery)	1	2A	2B
Input			
Number/Type	1 twin-channel positive isolating contact (NC contact)	1 single-channel non-positive isolating contact (NO contact)	1 single-channel non-positive isolating contact (NO contact)
Power supply	from AS-Interface	from AS-Interface	from AS-Interface
Output			
Number/Type	1 conventional electronic output (LED)	1 conventional electronic output (red LED)	1 conventional electronic output (green LED)
Power supply	from AS-Interface	from AS-Interface	from AS-Interface
Programming instructions			
Address (on delivery)	1	2A	2B
Profile	S-7.B.E	S-B.A.E	S-B.A.E
IO code	7	B	B
ID code	B	A	A
ID1 code	F	0	0
ID2 code	E	E	E
Data bit (function via AS-Interface)	Input	Input	Input
D0	Dyn. safety -code 1	-	-
D1	Dyn. safety -code 1	-	-
D2	Dyn. safety -code 2	IN1	IN2
D3	Dyn. safety -code 2	Not occupied	Not occupied
Data bit (function via AS-Interface)	Output		
D0	LED illumination	LED illumination	LED illumination
D1	Not occupied	Not occupied	Not occupied
D2	Not occupied	-	-
D3	Not occupied	-	-
Parameter bit (programmable via AS-i)	Function		
P0	Not used	Not used	Not used
P1	Not used	Not used	Not used
P2	Not used	Not used	Not used
P3	Not used	Not used	Not used

Function

The AS-Interface EMERGENCY STOP handheld programmer is a control and display unit that can be used to control plant and machinery. It supports control functions such as start/stop or fast/slow using two enabling switches and has an integrated EMERGENCY STOP button.

The EMERGENCY STOP button contains two positive NC contacts and when used as intended in conjunction with an AS-Interface safety monitor fulfills category 4 safety requirements according to EN 954-1 and SIL3 according to EN 61508. An LED indicator supplied from the AS-Interface indicates the switching status of all components. The EMERGENCY STOP button and the enabling switches are activated directly from the AS-Interface and are pre-assigned the addresses 1, 2A and 2B.

All the slaves are supplied from the AS-Interface. The connection can be made using, for example, an AS-Interface flat cable distributor with an M12 connector.

The enclosure can be secured in the desired position using the two mounting holes.

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