



AS-Interface safety switch

VAA-2E-IM1-J-S-V1

- Applications up to PL_d
- Rotating metal head
- 40 mm narrow construction, fixture dimensions compatible with all safety switches
- M12 plug connection

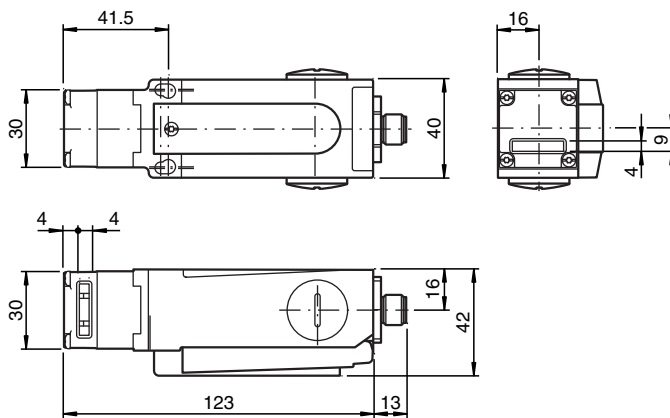
AS-Interface safety switch



Function

The VAA-2E-LIM1-S-V1 safety switch with a separate actuator is a mechanical safety switch with 2 inputs. NC contacts 1 and 2 are monitored via the inputs. Evaluation takes place via a safety monitor. Connection is via an M12 plug. The safety switch is supplied via the AS-Interface. Depending on the application, 4 different models of mechanical actuators can be ordered separately.

Dimensions



Technical Data

General specifications

Node type	Safety node
AS-Interface specification	V3.0
Required gateway specification	$\geq V2.0$
Profile	S-7.B
IO code	7
ID code	B
ID1 code	F
ID2 code	E
UL File Number	E179102

Electrical specifications

Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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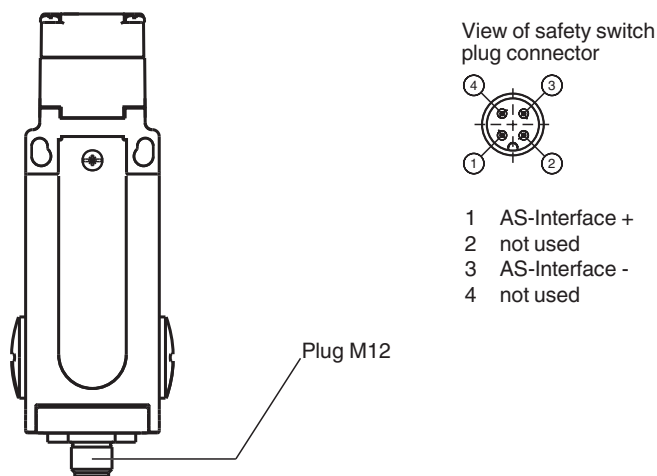
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PEPPERL+FUCHS

Technical Data

Rated operating current	I _e	≤ 45 mA
Rated insulation voltage		50 V
Input		
Number/Type		2 safety-related inputs: normally-closed contact 1 normally-closed contact 2
Supply		from AS-Interface
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 62026-2:2013+A1:2019 IEC 60947-5-3:1999
Standard conformity		
Degree of protection		EN 60529:2000
AS-Interface		EN 62026-2:2013+A1:2019
Functional safety		DIN EN 954-1, EN ISO 13849-1 (up to PL _d)
Ambient conditions		
Ambient temperature		-20 ... 55 °C (-4 ... 131 °F)
Mechanical specifications		
approach speed		max. 20 m/min
Operating force		25 N
Extraction force		25 N
retention force		10 N
insertion depth		
approach direction lateral		detected min. distance: 24.5 mm permissible caster: 5 mm
approach direction from above		detected min. distance: 24.5 mm permissible caster: 5 mm
Degree of protection		IP67
Connection		connector M12 x 1
Material		
Housing		Fiberglass-reinforced thermoplastic
actuating head		metal
cam		stainless steel
Mass		approx. 0.16 kg
Life span		2 x 10 ⁶ switching cycles

Assembly



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Programming

Data bit safety node
(function via AS-Interface)

Data bit	Input
D0	normally-closed contact 1
D1	normally-closed contact 1
D2	normally-closed contact 2
D3	normally-closed contact 2

Accessories

	VAZ-IM1-90°-BOLT-S	Right-angled actuator for AS-Interface safety switches
	VAZ-IM1-BOLT-S	Straight actuator for AS-Interface safety switches
	VAZ-IM1-LR-RADIUS-BOLT-S	Hinged actuator for right/left mounted doors, for AS-Interface safety switches
	VAZ-IM1-TD-RADIUS-BOLT-S	Hinged actuator for top/bottom mounted doors, for AS-Interface safety switches
	VAZ-IM1-BASE-BOLT-S	Latches for mechanical safety switches (LIM1 and IM1)
	VAZ-IM1-BASE-S	Switch mount for mechanical safety switches (LIM1 and IM1)
	VAZ-T1-FK-1M-PUR-V1-G	Splitter box AS-Interface to 1x M12 round connector