



Model number

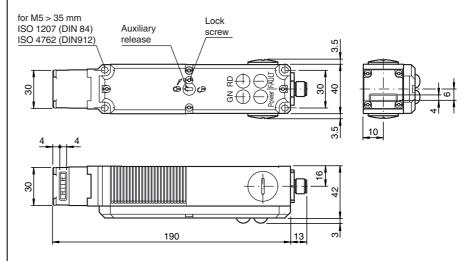
VAA-2E3A-LIM1-PU-L-S-V1

AS-Interface safety switch with guard locking and guard locking monitoring

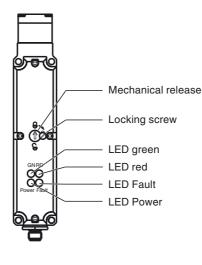
Features

- Applications up to PL_d
- 40 mm narrow construction, fixture dimensions compatible with all safety switches
- Rotating metal head
- Integrated guard locking up to 2500 N
- M12 plug connection
- Highly visible 4-way LED display

Dimensions



Indicating / Operating means



View of safety switch plug connector



- AS-Interface +
- Auxiliary voltage 0 V 2
- 3 AS-Interface -
- Auxiliary voltage 24 V

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General specifications				
Slave type	Safety-Slave			
AS-Interface specification	V2.1			
Required master specification	≥ V2.0			
guard-locking mode	quiescent current			
UL File Number	E179102			
Functional safety related parameters				
Performance level (PL)	PL d			
B _{10d}	5 E+6			

Indicators/operating means

LED FAULT error display; LED red red: communication error

LED POWER AS-Interface voltage; LED green **Electrical specifications**

Guard locking magnet: 24 V DC +10/-15 % PELV Auxiliary voltage U_e Rated operating voltage 26.5 ... 31.6 V from AS-Interface ≤ 45 mA Rated operating current

Rated insulation voltage

Input Number/Type 2 safety-related inputs: 1 door-monitoring contact SK

50 V

1 Magnet-monitoring contact MC

from AS-Interface Supply

Output

1 guard locking magnet, 1 LED red, 1 LED green Number/Type

Supply from external auxiliary voltage (in accordance with IEC 60742,

PELV) 300 mA Current

Directive conformity

insertion depth

Degree of protection

actuating head

Connection

Housing

Material

cam

Life span

Mass

approach direction lateral

approach direction from above

detected min. distance

24.5 mm

24 5 mm

Fiberglass-reinforced thermoplastic

M12 x 1 connector

stainless steel

approx. 0.5 kg

106 switching cycles

IP67

permissible caster

5mm

5mm

Function

VAA-2E3A-LIM1-PU-L-S-V1 switch with mechanical interlock and separate actuator is a safety switch with 2 inputs and 3 outputs. The contact monitoring and solenoid monitoring are available via the inputs. Evaluation takes place via a safety monitor. The outputs control the solenoid and the red and green LEDs.

Connection is via an M12 plug. The safety switch is supplied via the AS-Interface and AUX. The mechanical interlock functions according to the standby current principle. The interlock release is activated by triggering the D0 AS-Interface output. Mechanical interlock takes place through tension.

The mechanical override serves to unlock the safety switch with the use of tools. To protect against manipulation, the mechanical override is sealed by locking varnish.

The Power LED indicates operating voltage, the Fault LED indicates a device or communication error. For example, via the controller, contact monitoring can be displayed with the red LED and the solenoid monitoring with the green LED.

A simple connection to the AS-Interface network is sufficient for process protection. For personal protection, the 24 V connection can be switched securely.

Depending on the application, 4 different models of mechanical actuators can be ordered separately.

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-2T1-FK-1M-PUR-V1-G

Splitter box AS-Interface and auxiliary voltage to 1 x M12 round connector

PEPPERL+FUCHS

