

CET4-AP-CRA-AH-50X-SI-C2509-161577 (Order no. 161577)

Safety switch with guard locking CET-AP-..., RFID, plug connector M12, wire front release (bowden), for connection to decentralized peripheral systems

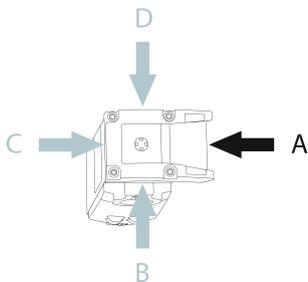
- ▶ Open-circuit current principle
- ▶ Unicode
- ▶ Monitoring output door position OUT D
- ▶ 2 x plug connector(s) M12, 5-pin
- ▶ for connection to decentralized peripheral systems
- ▶ Wire front release (bowden), 3 m, automatic return



Direct connection to decentralized peripheral systems

The connection via M12 plug connector(s) is optimized for direct connection to IP67 IO modules, such as ET200pro and ET200eco from SIEMENS, MVK from MURR and EP1957 from BECKHOFF.

Approach direction



Horizontal

Can be adjusted in 90° steps

Guard locking principle

Open-circuit current (power on to lock): On a guard with guard locking based on the open-circuit current principle, the guard is locked until the power supply to the guard locking solenoid is interrupted.

Unlocking is by spring force. The term electrical guard locking is also used.

Unicode evaluation

Each actuator is highly coded (unicode). The switch detects only taught-in actuators. Additional actuators can be taught-in.

Only the last actuator taught-in is detected.

Safety characteristics

Thanks to two redundant safety outputs (semiconductor outputs) with internal monitoring, the device is suitable for:

- ▶ Category 4 /PL e according to EN 13849-1
- ▶ SIL 3 according to EN IEC 62061 Table 4

The OSSD outputs used check their function for short circuits and short circuits with test pulses.

Wire front release (bowden)

The wire front release permits remote unlocking of the guard locking via a pull wire. Flexible routing of the pull wire permits release of the guard locking in inaccessible installation situations.

Important: The wire front release (bowden) is not a safety function.

LED indicator

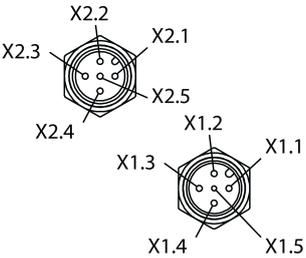
LED STATE Status LED

DIA LED Diagnostics LED

LED 1 rd illuminates when the solenoid is energized

LED 2 gn illuminates when door is closed

Terminal assignment

Plug connector (view of connection side)	Pin	Designation	Function	Connecting cable conductor coloring
	X 1.1	UB	Electronics operating voltage, 24 V DC	BN
	X 1.2	OA	Safety output, channel A	WH
	X 1.3	0 V	Electronics operating voltage, 0 V DC	BU
	X 1.4	OB	Safety output, channel B	BK
	X 1.5	-	n.c.	GY
	X 2.1	-	n.c.	BN
	X 2.2	OUT D	Door position monitoring output	WH
	X 2.3	0VUCM	Solenoid operating voltage, 0 V DC	BU
	X 2.4	UCM	Solenoid operating voltage, 24 V DC	BK
	X 2.5	-	n.c.	GY

Accessories required

Actuator is not included.

The safety switch can only be actuated in conjunction with the actuators provided for this purpose.