

CET3-AP-CRB-AH-50X-SA-156980 (Order no. 156980)

Safety switch with guard locking CET-AP-..., RFID, plug connector(s) M12

- ▶ Closed-circuit current principle
- ▶ Unicode
- ▶ Monitoring output diagnosis DIA
- ▶ Monitoring output door position OUT D
- ▶ Plug connector M12, 8-pin
- ▶ Approach direction B (delivery state)



Guard locking principle

Power to unlock: On a guard with guard locking based on the closed-circuit current principle, the guard is locked by spring force until the guard locking solenoid is supplied with power. Unlocking is by solenoid force. The term mechanical 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.

LED indicator

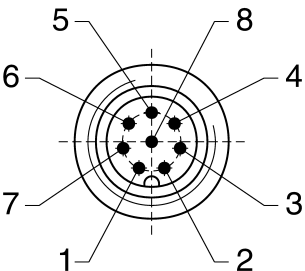
LED STATE Status LED

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
	1	UCM	Solenoid operating voltage, 24 V DC	WH
	2	UB	Electronics operating voltage, 24 V DC	BN
	3	OA	Safety output, channel A	GN
	4	OB	Safety output, channel B	YE
	5	DIA	Diagnostic monitoring output	GY
	6	OUT D	Door position monitoring output	PK
	7	0 V UB	Electronics operating voltage, 0 V DC	BU
	8	0V UCM	Solenoid operating voltage, 0 V DC	RD

Accessories required

Actuator is not included.

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