

## CES-AP-CR2-AH-SB-111748 (Order no. 111748)

Safety switch CES-AP-CR2-..., RFID, connection cable, connecting cable PUR with plug connector(s) M12, for connection to decentralized peripheral systems

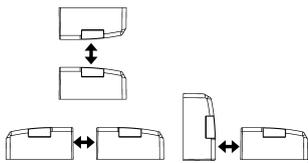
- ▶ Unicode
- ▶ Connecting cable PUR, 0.2 m, plug connector M12, 5-pin; pin 5 not used
- ▶ for connection to decentralized peripheral systems
- ▶ Door hinge right



### 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.

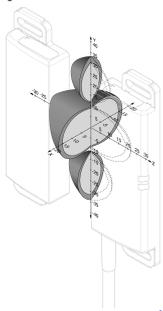
### Approach direction and installation position



Permissible installation position

### Typical operating distance

(Actuator CES-A-BLN... in conjunction with safety switch CES-AP-C.2-... in case of mounting on plastic)



[For a side approach direction for the actuator and safety switch, a minimum distance of  \$s = 6 \text{ mm}\$  must be maintained so that the actuating range of the side lobes is not entered.](#)

#### Attention:

The actuating range may vary depending on the actuator, substrate material and installation situation. Further actuating ranges can be found in the operating instructions.

## 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

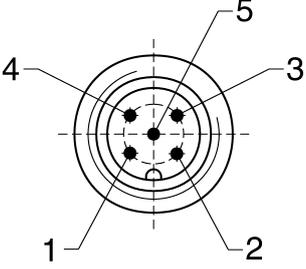
The OSSD outputs used check their function for short circuits and short circuits with test pulses.

## LED indicator

STATE Status LED

DIA Diagnostics LED

## Terminal assignment

Plug connector (view of connection side)	Pin	Designation	Function	Connecting cable conductor coloring
	1	UB	Electronics operating voltage, 24 V DC	BN
	2	OA	Safety output, channel A	WH
	3	0 V	Weight 0 V DC	BU
	4	OB	Safety output, channel B	BK
	5	-	n.c.	GY

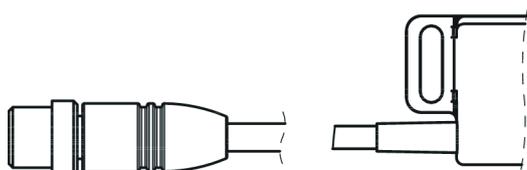
## Scope of delivery

- ▶ 2 x safety screws M4x14

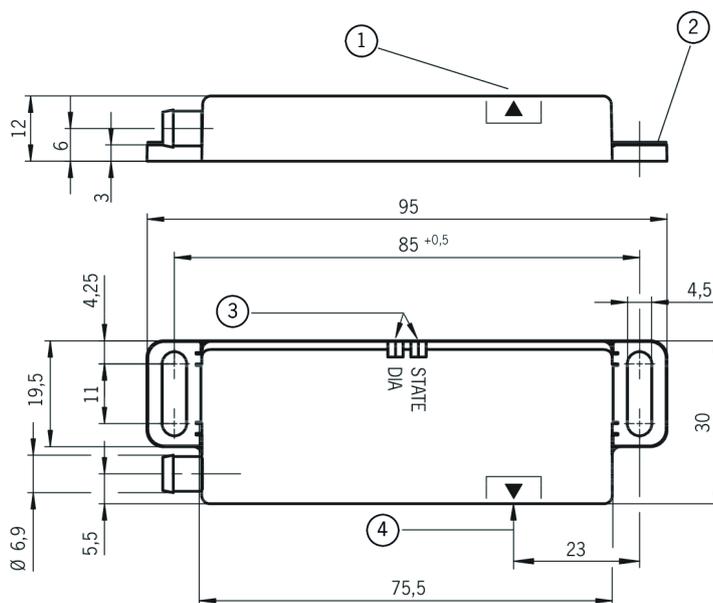
## Accessories required

Actuator is not included.

## Dimensional drawings



CES-AP-CR2-...



- 1 Active face
- 2 Fastening lug with reinforcement plate
- 3 LED status indication
- 4 Active face

## Connection examples

