## Non-contact safety switches CES-AR-C01...

- Read head with integrated evaluation electronics
Up to 20 safety switches in series
Short circuit monitoring
2 safety outputs (semiconductor outputs)
- Category 4 / PL e according to EN ISO 13849-1


For possible combinations see page 127

## Approach direction

Can be adjusted in $90^{\circ}$ steps

## Short circuit monitoring

The switch generates its own clock signal on the output lines OA/OB.
Pay attention to this aspect when connecting to control systems and relays.

## Unicode evaluation

Each actuator is unique. The evaluation unit detects only the actuator that has been taught-in. Additional actuators can be taught-in.
Only the last actuator taught-in is detected.

## Multicode evaluation

Every actuator is detected by the evaluation unit.

## Fixcode evaluation

An actuator is permanently allocated to the evaluation unit. The evaluation unit can be operated only with this actuator. The actuator is taught-in at EUCHNER prior to delivery. No additional actuators can be taught-in.

Category in accordance with EN ISO 13849-1 Due to two redundant design semiconductor outputs (safety outputs) with internal monitoring suitable for:

- Category 4 / PL e in accordance

EN ISO 13849-1
Important: To achieve the stated category in accordance with EN ISO 13849-1, both safety outputs ( $O A$ and $O B$ ) must be evaluated.

## LED display

STATE Status LED
DIA Diagnostics LED

## Additional connections

OUT Monitoring output (semiconductor)
RST Reset input

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M12 plug, 8-pin


Dimension drawing


For connection cable see page 144

## Block diagram



For connection examples see page 150

## Pin assignment

| Pin | Designation | Description | Wire color as per <br> DIN 47100 |
| :---: | :---: | :---: | :---: |
| 1 | IB | Enable input for channel 2 | white |
| 2 | UB | Power supply, DC 24 V | brown |
| 3 | OA | Safety output, channel 1 | green |
| 4 | OB | Safety output, channel 2 | yellow |
| 5 | OUT | Monitoring output | gray |
| 6 | IA | Enable input for channel 1 | pink |
| 7 | OV | Ground, DC 0 V | blue |
| 8 | RST | Reset input | red |



## Ordering table

| Series | Category and PL according to EN ISO 13849-1 | Order no. |
| :---: | :---: | :---: |
| CES-AR-C01-AH-SA |  |  |
| Unicode | $4 /$ PL e | 098941 |
| CES-AR-C01-CH-SA <br> Multicode | $4 /$ PL e | CES-AR-C01-AH-SA |

Technical data non-contact safety switches CES-AR-C01...


Typical operating distance safety switch CES-AR...


