



## Transponder safety switches TR4 Direct Sensor & actuator

TR4-SFU03P



**Model Name** > [TR4-SFU03P](#)  
**Part No.** > [6044651](#)

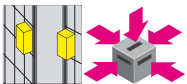


#### At a glance

- Response range of up to 25 mm
- Multicoded and unique coded sensors up to enclosure rating IP 69K
- Up to performance level PL e (EN ISO 13849)
- Two OSSD safety outputs for direct connection of sensors to a single safety controller
- Safe series connection of up to 30 sensors possible
- LED status indicator
- Boundary area indication and magnetic retaining force (both optional)
- Flexi Loop-compatible M12 plug connector (depending on variant)

#### Your benefits

- High level of prevention against tampering due to individually coded actuator (depending on type)
- High level of machine availability due to high tolerances for door misalignment and boundary area indication
- High level of machine reliability due to resistance to shocks and vibrations
- Cascadability of up to 30 sensors saves costs
- Long service life due to durable and low-maintenance design
- Fast diagnostics via LED status indicator
- The devices are easy to clean, making them suitable for contaminated areas or environments with strict hygiene standards
- Flexi Loop now enables a safe series connection with enhanced diagnostics capabilities and minimal wiring effort.



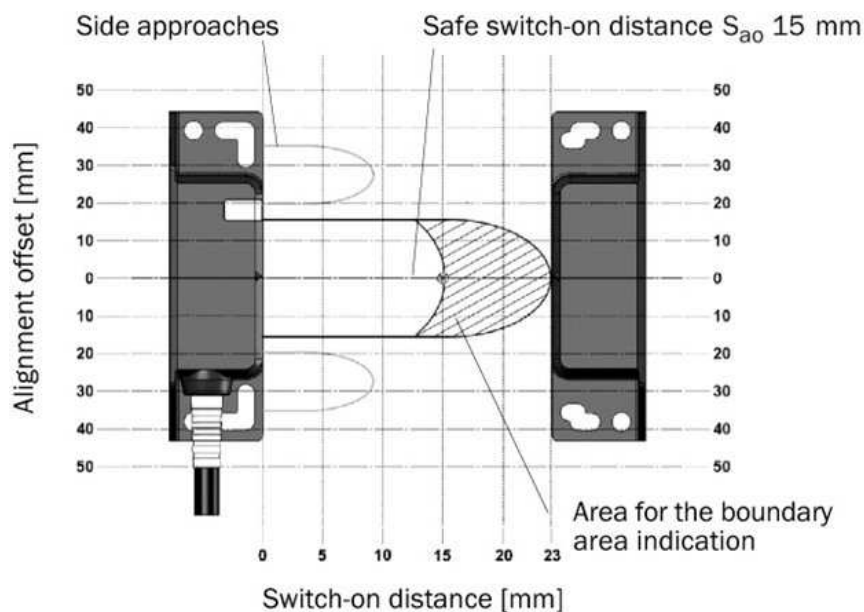
#### Technical data

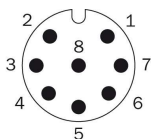
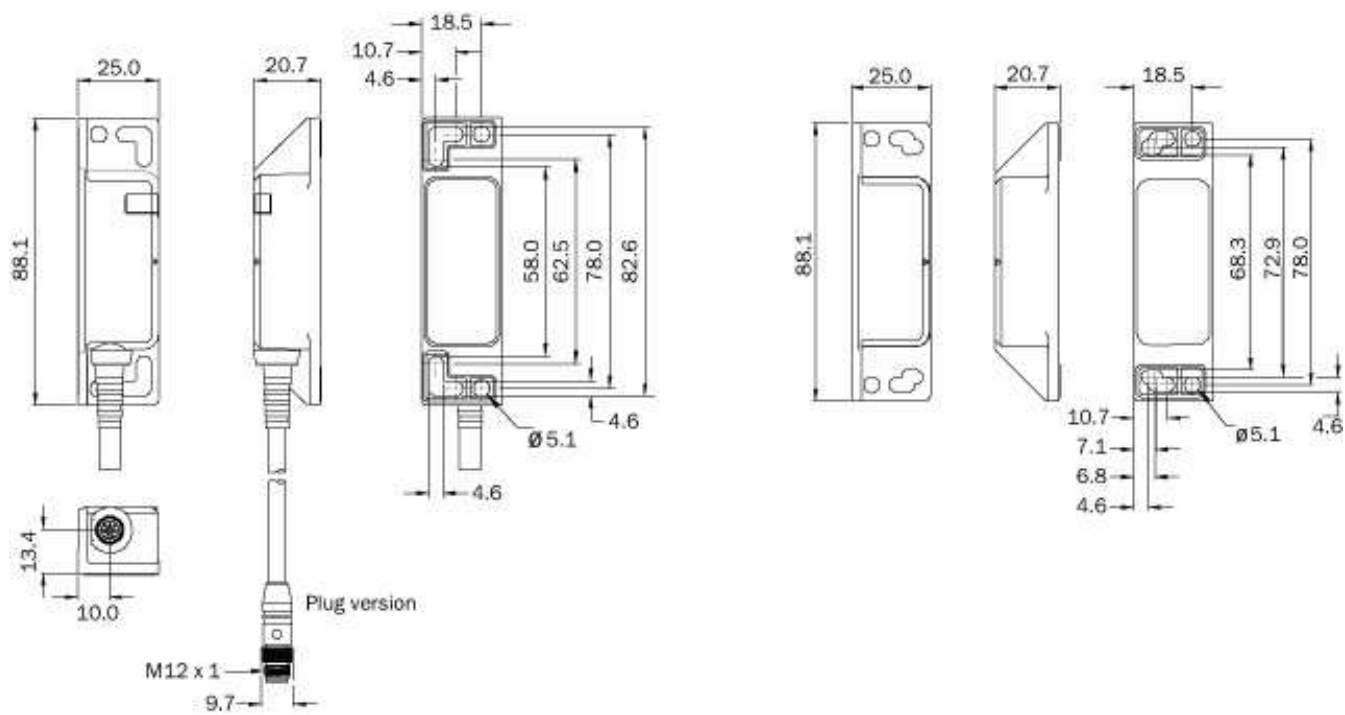
|                                                     |                                                         |
|-----------------------------------------------------|---------------------------------------------------------|
| Coding:                                             | Unique coded                                            |
| Safety integrity level:                             | SIL3 (IEC 61508)                                        |
| Category:                                           | category 4 (EN ISO 13849)                               |
| Performance level:                                  | PL e (EN ISO 13849)                                     |
| PFHd:                                               | 1.119 * 1E-09 (EN ISO 13849)                            |
| Electrical life:                                    | 10* 1E 06 switching cycles                              |
| TM (mission time):                                  | 20 a (EN ISO 13849)                                     |
| Classification in compliance with IEC/EN 60947-5-3: | PDF-M                                                   |
| Housing material:                                   | Valox® DR48                                             |
| Enclosure rating:                                   | IP 69K (DIN 40050-9), NEMA 12, NEMA 13, NEMA 3, NEMA 4X |
| Protection class:                                   | III (EN 50178)                                          |

|                                       |                               |
|---------------------------------------|-------------------------------|
| Ambient operating temperature:        | -10 °C ... 55 °C              |
| Electrical connection:                | Cable                         |
| Flexi Loop-compatible plug connector: | -                             |
| Cable length:                         | 3 m                           |
| Type of output:                       | Semiconductor (OSSD)          |
| Number of safe outputs:               | 2                             |
| Response time:                        | 60 ms <sup>1)</sup>           |
| Supply voltage typical, from, to:     | 24 V DC, 20.4 V DC, 26.4 V DC |
| Safe switch on distance $S_{ao}$ :    | 15 mm                         |
| Status display:                       | ✓                             |
| Boundary area indication:             | ✓                             |
| Magnetic retaining force:             | ✓                             |
| Dimensions (W x H x D):               | 25 mm x 88 mm x 20 mm         |
| Weight:                               | 270 g                         |

<sup>1)</sup> In a cascade each downstream safety switch increases the response time of the system. Other response times see operating instructions.

## Response range





|   |                            |
|---|----------------------------|
| 1 | Aux output (not safe)      |
| 2 | Voltage supply 24 V DC     |
| 3 | Not connected              |
| 4 | Enable input for channel B |
| 5 | Safety output A            |
| 6 | Safety output B            |
| 7 | Voltage supply 0 V DC      |
| 8 | Enable input for channel A |

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