

## Read head and evaluation unit

### VAA-2E-IER2-S-0,15M-V1

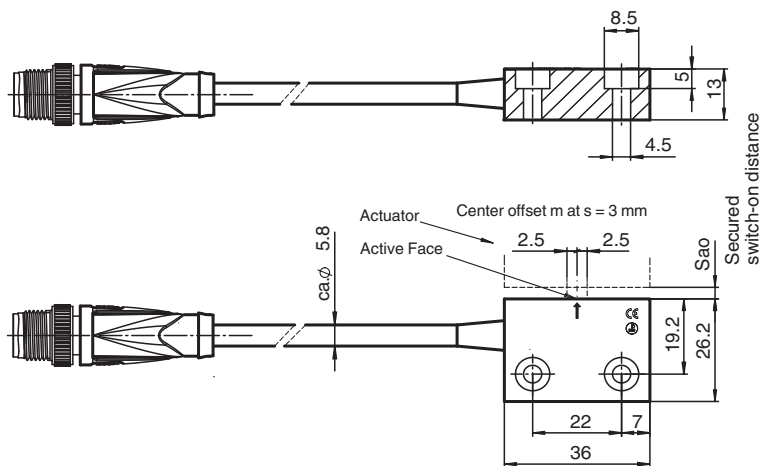


- Small plastic housing
- Encapsulated electronics
- Especially suited to small doors and coverings
- Multiple-flush magnet system
- Cable with M12 plug

Reed safety switch for non-contact AS-Interface safety switches



## Dimensions



## Technical Data

### General specifications

|                                |                 |                               |
|--------------------------------|-----------------|-------------------------------|
| Detection type                 |                 | magnetic                      |
| assured start-up distance      | S <sub>a0</sub> | 7 mm                          |
| assured release distance       | S <sub>ar</sub> | max. 40 mm                    |
| Center offset                  | m               | ± 2.5 mm at distance s = 3 mm |
| Node type                      |                 | Safety node                   |
| AS-Interface specification     |                 | V3.0                          |
| Required gateway specification |                 | ≥ V2.0                        |
| Profile                        |                 | S-0.B                         |
| IO code                        |                 | 0                             |
| ID code                        |                 | B                             |
| ID1 code                       |                 | F                             |
| ID2 code                       |                 | E                             |
| Response delay                 |                 | < 5 ms                        |
| UL File Number                 |                 | E155795                       |

### Functional safety related parameters

|                              |  |       |
|------------------------------|--|-------|
| Safety Integrity Level (SIL) |  | SIL 3 |
|------------------------------|--|-------|

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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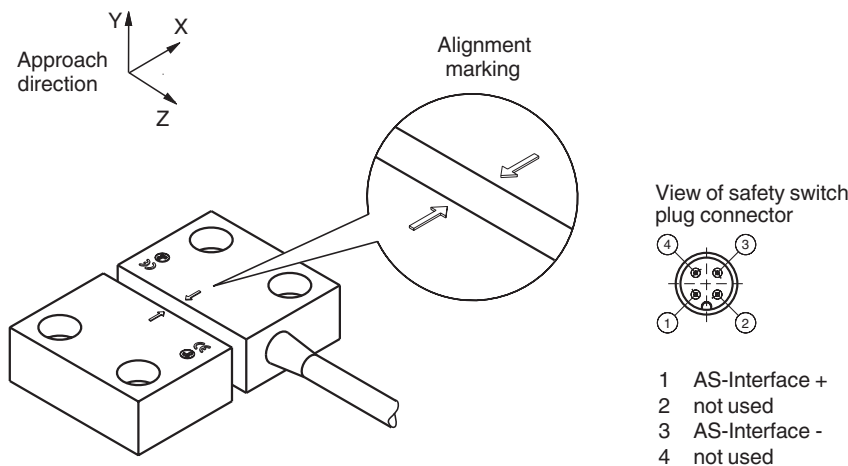
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 **PEPPERL+FUCHS**

Technical Data

|                                |                |                                                                                          |
|--------------------------------|----------------|------------------------------------------------------------------------------------------|
| Performance level (PL)         |                | PL e                                                                                     |
| Mission Time (T <sub>M</sub> ) |                | 20 a                                                                                     |
| PFH <sub>d</sub>               |                | 4.29 E-8                                                                                 |
| Electrical specifications      |                |                                                                                          |
| Rated operating voltage        | U <sub>e</sub> | 26.5 ... 31.6 V from AS-Interface                                                        |
| Rated operating current        | I <sub>e</sub> | ≤ 30 mA                                                                                  |
| Power supply                   |                | via AS-Interface network                                                                 |
| Directive conformity           |                |                                                                                          |
| Electromagnetic compatibility  |                |                                                                                          |
| Directive 2014/30/EU           |                | EN 62026-2:2013+A1:2019<br>IEC 60947-5-3:1999                                            |
| Machinery Directive            |                |                                                                                          |
| Directive 2006/42/EC           |                | EN ISO 12100-1, -2:2003<br>EN 1088:1995+A2:2008                                          |
| Standard conformity            |                |                                                                                          |
| Degree of protection           |                | EN 60529:2000                                                                            |
| AS-Interface                   |                | EN 62026-2:2013+A1:2019                                                                  |
| Functional safety              |                | ISO 13849-1:2008 (up to category 3/PL e) EN ISO 12100-1, -2:2003<br>EN 1088:1995+A2:2008 |
| Ambient conditions             |                |                                                                                          |
| Ambient temperature            |                | -20 ... 60 °C (-4 ... 140 °F)                                                            |
| Shock and impact resistance    |                | 30 g/11 ms                                                                               |
| Mechanical specifications      |                |                                                                                          |
| Degree of protection           |                | IP67                                                                                     |
| Connection                     |                | with fixed cable and M12 connector, 4-pin                                                |
| Material                       |                |                                                                                          |
| Housing                        |                | PPS                                                                                      |
| Cable                          |                | PUR                                                                                      |
| Installation                   |                | any position                                                                             |
| Dimensions                     |                |                                                                                          |
| Width                          |                | 26.2 mm                                                                                  |
| Depth                          |                | 13 mm                                                                                    |
| Length                         |                | 36 mm                                                                                    |
| Cable length                   |                | 15 cm                                                                                    |
| Life span                      |                | 100 x 10 <sup>6</sup> switching cycles                                                   |

Assembly



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| Data bit | Input              |
|----------|--------------------|
| D0       | dyn. safety code 1 |
| D1       | dyn. safety code 1 |
| D2       | dyn. safety code 2 |
| D3       | dyn. safety code 2 |

| Parameter bit | Function |
|---------------|----------|
| P0            | IN1      |
| P1            | IN2      |
| P2            | IN3      |
| P3            | IN4      |