

- Direct mounting on standard actuators
- ATEX & IECEx certifications



## General specifications

|                                    |                |                          |
|------------------------------------|----------------|--------------------------|
| Switching function                 |                | 2 x normally closed (NC) |
| Output type                        |                | NAMUR                    |
| Rated operating distance           | s <sub>n</sub> | 3 mm                     |
| Installation                       |                | flush mountable          |
| Assured operating distance         | s <sub>a</sub> | 0 ... 2.43 mm            |
| Actual operating distance          | s <sub>r</sub> | 2.7 ... 3.3 mm typ.      |
| Reduction factor r <sub>Al</sub>   |                | 0.52                     |
| Reduction factor r <sub>Cu</sub>   |                | 0.43                     |
| Reduction factor r <sub>304</sub>  |                | 0.86                     |
| Reduction factor r <sub>St37</sub> |                | 1                        |

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

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com



## Technical Data

|                                                 |       |                                                      |
|-------------------------------------------------|-------|------------------------------------------------------|
| Reduction factor $r_{\text{Brass}}$             |       | 0.54                                                 |
| Output type                                     |       | 2-wire                                               |
| <b>Nominal ratings</b>                          |       |                                                      |
| Nominal voltage                                 | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ )                 |
| Switching frequency                             | $f$   | 0 ... 1500 Hz                                        |
| Hysteresis                                      | $H$   | typ. 5 %                                             |
| Reverse polarity protection                     |       | reverse polarity protected                           |
| Short-circuit protection                        |       | yes                                                  |
| Suitable for 2:1 technology                     |       | yes , Reverse polarity protection diode not required |
| Current consumption                             |       |                                                      |
| Measuring plate not detected                    |       | $\geq 3$ mA                                          |
| Measuring plate detected                        |       | $\leq 1$ mA                                          |
| Time delay before availability                  | $t_v$ | $\leq 1$ ms                                          |
| Switching state indicator                       |       | LED, yellow                                          |
| <b>Functional safety related parameters</b>     |       |                                                      |
| MTTF <sub>d</sub>                               |       | 1010 a                                               |
| Mission Time ( $T_M$ )                          |       | 20 a                                                 |
| Diagnostic Coverage (DC)                        |       | 0 %                                                  |
| <b>Compliance with standards and directives</b> |       |                                                      |
| Standard conformity                             |       |                                                      |
| NAMUR                                           |       | EN 60947-5-6:2000<br>IEC 60947-5-6:1999              |
| Electromagnetic compatibility                   |       | NE 21:2007                                           |
| Standards                                       |       | EN IEC 60947-5-2                                     |
| <b>Approvals and certificates</b>               |       |                                                      |
| IECEX approval                                  |       |                                                      |
| Equipment protection level Ga                   |       | IECEX TUN 17.0021X                                   |
| Equipment protection level Gb                   |       | IECEX TUN 17.0021X                                   |
| Equipment protection level Da                   |       | IECEX TUN 17.0021X                                   |
| Equipment protection level Mb                   |       | IECEX TUN 17.0021X                                   |
| ATEX approval                                   |       |                                                      |
| Equipment protection level Ga                   |       | TÜV 99 ATEX 1479 X                                   |
| Equipment protection level Gb                   |       | TÜV 99 ATEX 1479 X                                   |
| Equipment protection level Da                   |       | TÜV 99 ATEX 1479 X                                   |
| UL approval                                     |       | cULus Listed, General Purpose                        |
| Ordinary Location                               |       | E87056                                               |
| Hazardous Location                              |       | E501628                                              |
| Control drawing                                 |       | 116-0456                                             |
| CCC approval                                    |       |                                                      |
| Hazardous Location                              |       | 2020322315002262                                     |
| NEPSI approval                                  |       |                                                      |
| NEPSI certificate                               |       | GYJ19.1410X                                          |
| <b>Ambient conditions</b>                       |       |                                                      |
| Ambient temperature                             |       | -25 ... 100 °C (-13 ... 212 °F)                      |
| Storage temperature                             |       | -40 ... 100 °C (-40 ... 212 °F)                      |
| <b>Mechanical specifications</b>                |       |                                                      |
| Connection type                                 |       | cable                                                |
| Housing material                                |       | PBT                                                  |
| Sensing face                                    |       | PBT                                                  |
| Degree of protection                            |       | IP67                                                 |
| Cable                                           |       |                                                      |
| Cable diameter                                  |       | 6.9 mm $\pm$ 0.2 mm                                  |
| Bending radius                                  |       | > 10 x cable diameter                                |

Release date: 2025-06-12 Date of issue: 2025-06-15 Filename: 70133350\_eng.pdf

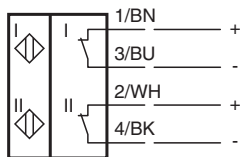
Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group  
www.pepperl-fuchs.comUSA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.comGermany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.comSingapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com
 **PEPPERL+FUCHS**

Technical Data

|                                     |   |                             |
|-------------------------------------|---|-----------------------------|
| Material                            |   | PVC                         |
| Core cross section                  |   | 0.75 mm²                    |
| Length                              | L | 5 m                         |
| Mass                                |   | 42 g                        |
| Tightening torque, fastening screws |   | M5 x 25 : ≤ 2.7 Nm          |
| Dimensions                          |   |                             |
| Height                              |   | 20 mm                       |
| Width                               |   | 52 mm                       |
| Length                              |   | 52 mm                       |
| Note                                |   | Mounted on mechanical drive |
| General information                 |   |                             |
| Use in the hazardous area           |   | see instruction manuals     |

Connection Assignment



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