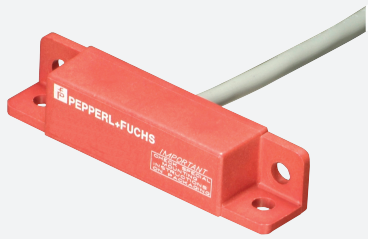


# Magnetic field sensor

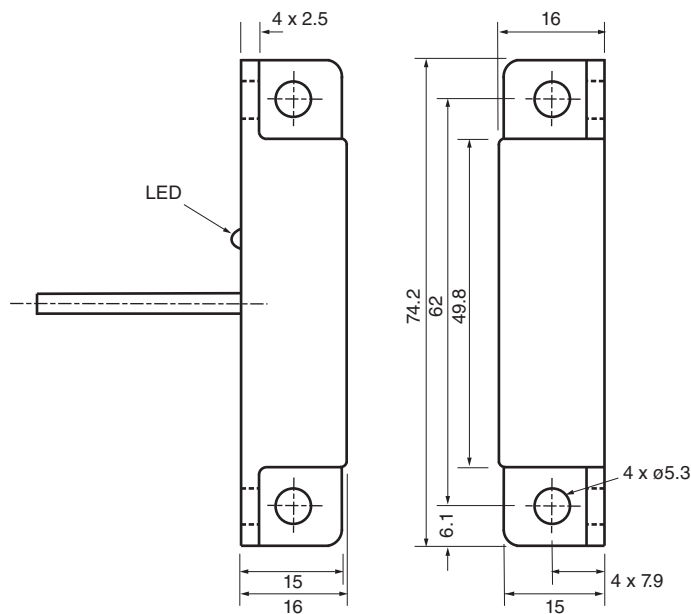
## 40FY28-020



- Hall Effect Sensor
- Door Interrupt Sensor
- Tamper resistant magnetic actuator



### Dimensions



### Technical Data

#### General specifications

|                          |                |                                                         |
|--------------------------|----------------|---------------------------------------------------------|
| Switching function       |                | Normally open (NO)                                      |
| Output type              |                | NPN                                                     |
| Rated operating distance | s <sub>n</sub> | Use either 41FY1 - 6.4 - 15.2 mm or 41FY2 - 7.6 - 19 mm |
| Installation             |                | non-flush                                               |
| Output polarity          |                | DC                                                      |
| Output type              |                | 3-wire                                                  |

#### Nominal ratings

|                          |                |                |
|--------------------------|----------------|----------------|
| Operating voltage        | U <sub>B</sub> | 10 ... 30 V DC |
| Hysteresis               | H              | 5 ... 25 %     |
| Short-circuit protection |                | yes            |

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

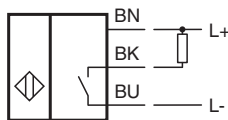
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

Technical Data

|                                          |       |                                                                                    |
|------------------------------------------|-------|------------------------------------------------------------------------------------|
| Voltage drop                             | $U_d$ | $\leq 2.5\text{ V DC}$                                                             |
| Repeat accuracy                          |       | $\pm 3\%$                                                                          |
| Operating current                        | $I_L$ | $\leq 200\text{ mA}$                                                               |
| Off-state current                        | $I_r$ | $\leq 30\text{ mA}$                                                                |
| No-load supply current                   | $I_0$ | $\leq 40\text{ mA}$                                                                |
| Indicators/operating means               |       |                                                                                    |
| LED indication                           |       | switching state                                                                    |
| Electrical specifications                |       |                                                                                    |
| Electrical rating                        |       | 10 - 30 V DC                                                                       |
| Compliance with standards and directives |       |                                                                                    |
| Standard conformity                      |       |                                                                                    |
| Standards                                |       | EN IEC 60947-5-2                                                                   |
| Approvals and certificates               |       |                                                                                    |
| UL approval                              |       | cULus Listed, General Purpose                                                      |
| Ambient conditions                       |       |                                                                                    |
| Ambient temperature                      |       | $-30 \dots 85\text{ }^{\circ}\text{C}$ ( $-22 \dots 185\text{ }^{\circ}\text{F}$ ) |
| Mechanical specifications                |       |                                                                                    |
| Connection type                          |       | cable                                                                              |
| Housing material                         |       | Polycarbonate                                                                      |
| Sensing face                             |       | Polycarbonate                                                                      |
| Degree of protection                     |       | IP67                                                                               |
| Cable                                    |       |                                                                                    |
| Material                                 |       | PVC                                                                                |
| Core cross section                       |       | $0.34\text{ mm}^2$                                                                 |
| Length                                   | L     | 2 m                                                                                |
| Dimensions                               |       |                                                                                    |
| Width                                    |       | 16 mm                                                                              |
| Depth                                    |       | 16 mm                                                                              |
| Length                                   |       | 74.2 mm                                                                            |

Connection



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