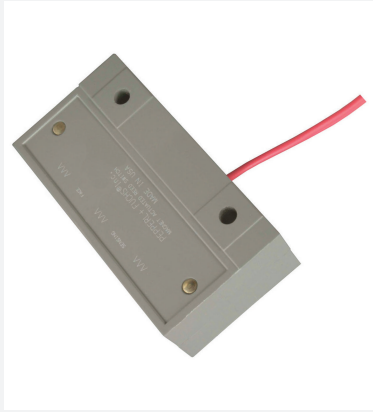


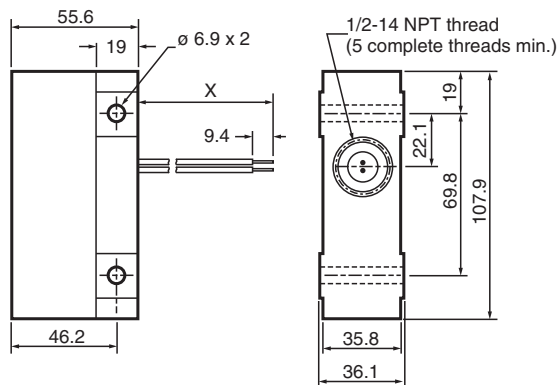


## Magnetic field sensor 20FR1-6B

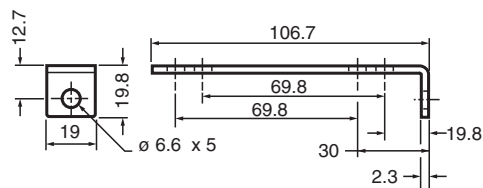
- Magnetically actuated reed switch
- Hermetically sealed contacts
- Heavy duty Aluminum housings

### Dimensions

#### 20FR



#### Mounting bracket (included)



### Technical Data

#### General specifications

|                          |       |                                      |
|--------------------------|-------|--------------------------------------|
| Switching function       |       | Normally open (NO)                   |
| Output type              |       | Reed Contact                         |
| Rated operating distance | $s_n$ | 61 mm                                |
| Installation             |       | non-flush                            |
| Output type              |       | Reed Contact Normally Open           |
| Mechanical life          |       | 1 x 10 <sup>7</sup> switching cycles |

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

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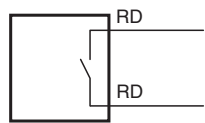
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

**PEPPERL+FUCHS**

Technical Data

| Nominal ratings           |                |                                |
|---------------------------|----------------|--------------------------------|
| Operating voltage         | U <sub>B</sub> | 250 V DC, 1.0 A max, 15 W      |
| Hysteresis                | H              | typ. 25 % ( 15.2 mm )          |
| Release point             |                | ≤ max. 76 mm                   |
| Ambient conditions        |                |                                |
| Ambient temperature       |                | -25 ... 85 °C (-13 ... 185 °F) |
| Mechanical specifications |                |                                |
| Connection type           |                | cable                          |
| Core cross section        |                | 16 AWG                         |
| Housing material          |                | Aluminum                       |
| Sensing face              |                | Aluminum                       |
| Degree of protection      |                | IP68                           |
| Material                  |                |                                |
| Activation target         |                | 21FR1-B                        |
| Cable                     |                |                                |
| Material                  |                | PVC                            |
| Length                    | L              | 1.83 m                         |
| Dimensions                |                |                                |
| Width                     |                | 107.9 mm                       |
| Length                    |                | 55.6 mm                        |

Connection



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Application

Temperature Effects

Temperature must be taken into consideration when using magnetically operated switches. The sensing ranges given on the following pages are for head-on operations at room temperature (75° F). Sub-zero temperatures can cause permanently reduced sensitivity. Use the following table as a guide for potential sensitivity loss.

| Model    | Maximum possible sensitivity loss |
|----------|-----------------------------------|
| 20FR1-6B | 2.03 mm                           |
| 20FR3-6B | 1.52 mm                           |
| 20FR4-6B | 1.52 mm                           |
| 20FR5-6B | 4.95 mm                           |

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