



CE  
0102



### Model Number

**MJ35-F12-1N-5M**

### Features

- **Comfort series**

## Technical Data

### General specifications

|                            |       |                          |
|----------------------------|-------|--------------------------|
| Switching function         |       | 2 x normally closed (NC) |
| Output type                |       | NAMUR                    |
| Rated operating distance   | $s_n$ | 35 mm                    |
| Installation               |       | flush                    |
| Assured operating distance | $s_a$ | 0 ... 35 mm              |
| Output type                |       | 2-wire                   |

### Nominal ratings

|                           |       |                                      |
|---------------------------|-------|--------------------------------------|
| Nominal voltage           | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |
| Switching frequency       | $f$   | 0 ... 1000 Hz                        |
| Current consumption       |       |                                      |
| Magnet detected           |       | $\geq 3$ mA                          |
| Magnet not detected       |       | $\leq 1$ mA                          |
| Switching state indicator |       | LED, yellow                          |

### Ambient conditions

|                     |  |                                |
|---------------------|--|--------------------------------|
| Ambient temperature |  | -25 ... 70 °C (-13 ... 158 °F) |
|---------------------|--|--------------------------------|

### Mechanical specifications

|                      |  |                      |
|----------------------|--|----------------------|
| Connection type      |  | cable PVC, 5 m       |
| Core cross-section   |  | 0.34 mm <sup>2</sup> |
| Housing material     |  | anodized aluminum    |
| Sensing face         |  | PBT                  |
| Degree of protection |  | IP67                 |

### General information

|                           |  |                         |
|---------------------------|--|-------------------------|
| Use in the hazardous area |  | see instruction manuals |
| Category                  |  | 2G                      |

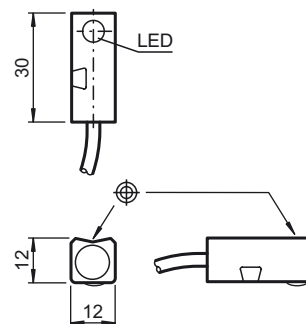
### Compliance with standards and directives

|                     |  |                                                                                             |
|---------------------|--|---------------------------------------------------------------------------------------------|
| Standard conformity |  |                                                                                             |
| NAMUR               |  | EN 60947-5-6:2000                                                                           |
| Standards           |  | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |

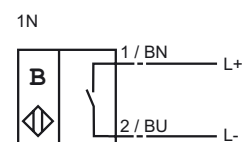
### Approvals and certificates

|                 |  |                                                                    |
|-----------------|--|--------------------------------------------------------------------|
| FM approval     |  |                                                                    |
| Control drawing |  | 116-0165                                                           |
| CCC approval    |  | CCC approval / marking not required for products rated $\leq 36$ V |

## Dimensions

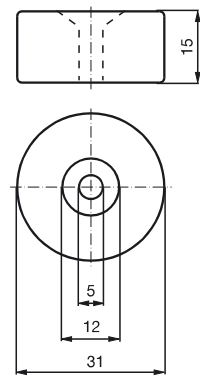


## Electrical Connection

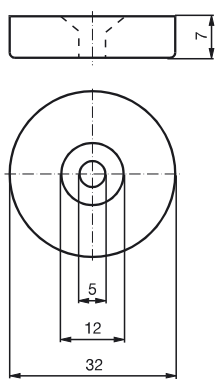




Magnet DM 60-31-15



Magnet DM 25-32-07



|                                |                                                                                                                                              |                                                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Equipment protection level Gb  |                                                                                                                                              |                                                 |
| CE marking                     | CE 0102                                                                                                                                      |                                                 |
| ATEX marking                   | II 2G Ex ib IIC T6 Gb                                                                                                                        |                                                 |
| Standards                      | EN 60079-0:2012+A11:2013, EN 60079-11:2012<br>Ignition protection "Intrinsic safety"<br>Use is restricted to the following stated conditions |                                                 |
| Appropriate type               | MJ35-F12-1N 5M                                                                                                                               |                                                 |
| Effective internal capacitance | C <sub>i</sub>                                                                                                                               | ≤ 15 nF ; a cable length of 10 m is considered. |
| Effective internal inductance  | L <sub>i</sub>                                                                                                                               | ≤ 35 μH ; a cable length of 10 m is considered. |
| Special conditions             |                                                                                                                                              |                                                 |

Release date: 2019-04-30 17:05 Date of issue: 2019-04-30 044186\_eng.xml