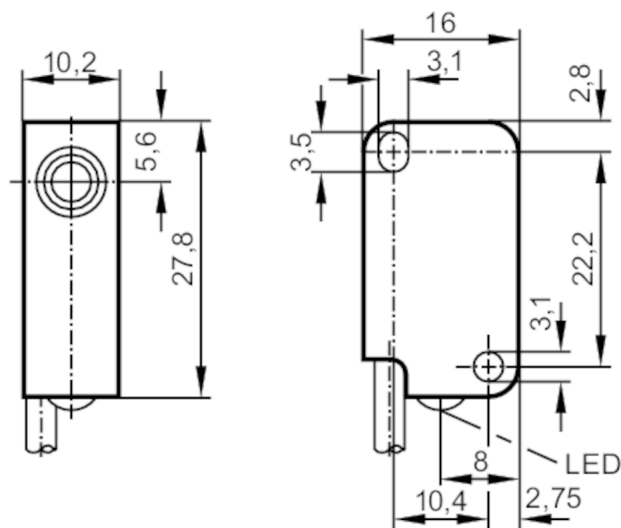


# MS5011

## Magnetic sensor

MS-3060-BPKG/PH



### Electrical data

|                             |      |                                         |
|-----------------------------|------|-----------------------------------------|
| Operating voltage           | [V]  | 10...30 DC; ("supply class 2" to cULus) |
| Current consumption         | [mA] | < 10                                    |
| Protection class            |      | III                                     |
| Reverse polarity protection |      | yes                                     |

### Outputs

|                                                 |      |               |
|-------------------------------------------------|------|---------------|
| Electrical design                               |      | PNP           |
| Output function                                 |      | normally open |
| Max. voltage drop switching output DC           | [V]  | 2.5           |
| Permanent current rating of switching output DC | [mA] | 200           |
| Switching frequency DC                          | [Hz] | 5000          |
| Short-circuit protection                        |      | yes           |
| Type of short-circuit protection                |      | pulsed        |
| Overload protection                             |      | yes           |

### Detection zone

|                      |      |                                |
|----------------------|------|--------------------------------|
| Sensing range        | [mm] | 60; (referred to magnet M 4.0) |
| Response sensitivity | [mT] | 1.2                            |

### Accuracy / deviations

|            |           |        |
|------------|-----------|--------|
| Hysteresis | [% of Sr] | 1...10 |
|------------|-----------|--------|

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...75 |
| Protection          |      | IP 67    |

# MS5011



## Magnetic sensor

MS-3060-BPKG/PH

### Tests / approvals

|      |                           |                                |
|------|---------------------------|--------------------------------|
| EMC  | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD              |
|      | EN 61000-4-3 HF radiated  | 10 V/m                         |
|      | EN 61000-4-4 Burst        | 2 kV                           |
|      | EN 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm |
|      | EN 61000-4-6 HF conducted | 10 V                           |
|      | EN 55011                  | class B                        |
| MTTF | [years]                   | 2847                           |

### Mechanical data

|            |      |                     |
|------------|------|---------------------|
| Weight     | [g]  | 59.5                |
| Housing    |      | rectangular         |
| Dimensions | [mm] | 28 x 10 x 16        |
| Materials  |      | housing: PBT orange |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

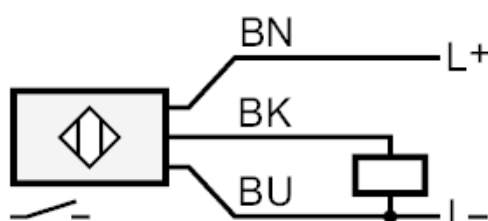
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Cable: 2 m, PUR / PVC; 3 x 0.14 mm<sup>2</sup>

### Connection



Core colours :

|      |       |
|------|-------|
| BK = | black |
| BN = | brown |
| BU = | blue  |