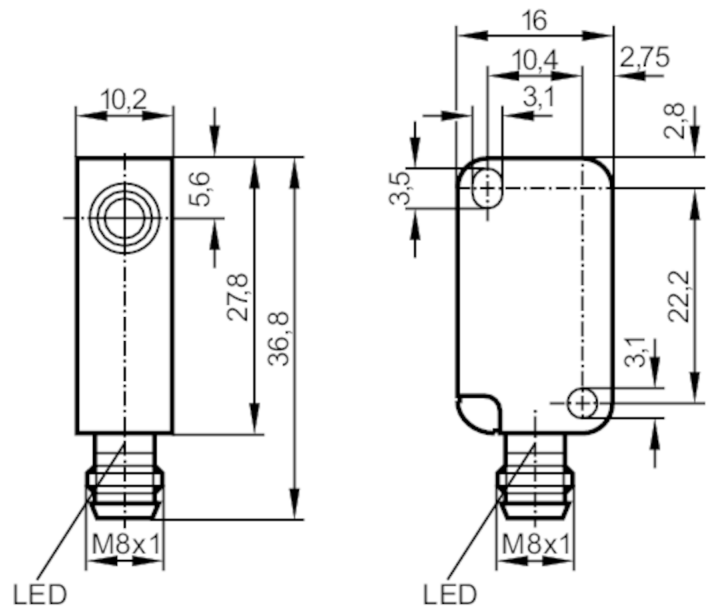


# MS5010

## Magnetic sensor

MS-3060-BPKG/AS-510-TPS



| Product characteristics                              |                                         |
|------------------------------------------------------|-----------------------------------------|
| Electrical design                                    | PNP                                     |
| Output function                                      | normally open                           |
| Sensing range [mm]                                   | 60; (referred to magnet M 4.0)          |
| Housing                                              | rectangular                             |
| Dimensions [mm]                                      | 28 x 10 x 16                            |
| Application                                          |                                         |
| Special feature                                      | Gold-plated contacts                    |
| 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                                     |

# MS5010



## Magnetic sensor

MS-3060-BPKG/AS-510-TPS

| 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                          |
| 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]                       | 17                             |
| 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 - plug                        |                           |                                |
| Connector: 1 x M8; coding: A; Contacts: gold-plated |                           |                                |
|                                                     |                           |                                |



# MS5010



## Magnetic sensor

MS-3060-BPKG/AS-510-TPS

### Connection

