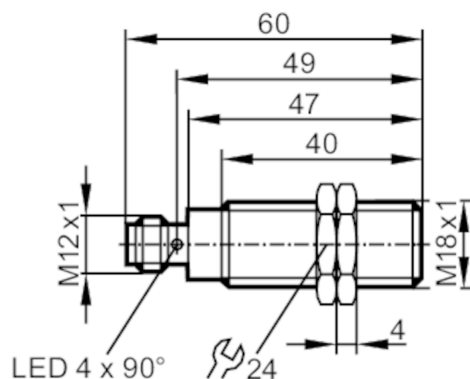


## Magnetic sensor

MGK3100-BPKG/M/V4A/US-104-DPS



## Product characteristics

|                    |                                 |
|--------------------|---------------------------------|
| Electrical design  | PNP                             |
| Output function    | normally open                   |
| Sensing range [mm] | 100; (referred to magnet M 4.0) |
| Housing            | Threaded type                   |
| Dimensions [mm]    | M18 x 1 / L = 60                |

## Application

|             |                      |
|-------------|----------------------|
| System      | gold-plated contacts |
| Application | pig detection        |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| 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           |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

## Monitoring range

|                           |                                 |
|---------------------------|---------------------------------|
| Sensing range [mm]        | 100; (referred to magnet M 4.0) |
| Magnetic sensitivity [mT] | 0.3                             |

## Accuracy / deviations

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

## Reaction times

|                       |      |
|-----------------------|------|
| Pulse stretching [ms] | 1000 |
|-----------------------|------|

# MGT201



## Magnetic sensor

MGK3100-BPKG/M/V4A/US-104-DPS

| Operating conditions                                                                |                           |                                                                                          |
|-------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------|
| Ambient temperature                                                                 | [°C]                      | 0...104                                                                                  |
| Protection                                                                          |                           | IP 68; IP 69K                                                                            |
| 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]                   | 769                                                                                      |
| Mechanical data                                                                     |                           |                                                                                          |
| Weight                                                                              | [g]                       | 47.3                                                                                     |
| Housing                                                                             |                           | Threaded type                                                                            |
| Dimensions                                                                          | [mm]                      | M18 x 1 / L = 60                                                                         |
| Thread designation                                                                  |                           | M18 x 1                                                                                  |
| Material                                                                            |                           | housing: stainless steel (1.4404 / 316L); sensing face: PEEK; lock nuts: stainless steel |
| Displays / operating elements                                                       |                           |                                                                                          |
| Display                                                                             | Switching status          | 1 x LED, yellow                                                                          |
| Accessories                                                                         |                           |                                                                                          |
| Items supplied                                                                      |                           | lock nuts: 2                                                                             |
| Remarks                                                                             |                           |                                                                                          |
| Remarks                                                                             |                           | voltage supply to EN50178, SELV, PELV                                                    |
| Pack quantity                                                                       |                           | 1 pcs.                                                                                   |
| Electrical connection - plug                                                        |                           |                                                                                          |
| Connector: 1 x M12; coding: A; Contacts: gold-plated                                |                           |                                                                                          |
|  |                           |                                                                                          |



## Magnetic sensor

MGK3100-BPKG/M/V4A/US-104-DPS

### Connection

