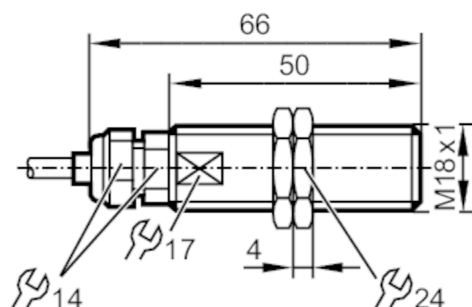


# MGT000



## Magnetic sensor

MGK2030-AKOA/R/2M



### Product characteristics

|                    |                                |
|--------------------|--------------------------------|
| Electrical design  | PNP/NPN                        |
| Output function    | normally open                  |
| Sensing range [mm] | 25; (referred to magnet M 4.0) |
| Housing            | threaded type                  |
| Dimensions [mm]    | M18 x 1 / L = 66               |

### Application

|                 |                               |
|-----------------|-------------------------------|
| Special feature | Full-metal housing            |
| Application     | high-temperature applications |

### Electrical data

|                             |               |
|-----------------------------|---------------|
| Operating voltage [V]       | 2...250 AC/DC |
| Protection class            | II            |
| Reverse polarity protection | yes           |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP/NPN       |
| Output function                                      | normally open |
| Permanent current rating of switching output AC [mA] | 1000          |
| Permanent current rating of switching output DC [mA] | 1000          |
| Short-time current rating of switching output [mA]   | 1000          |
| Max. switching power [W]                             | 100           |
| Short-circuit protection                             | no            |
| Overload protection                                  | no            |

### Detection zone

|                           |                                |
|---------------------------|--------------------------------|
| Sensing range [mm]        | 25; (referred to magnet M 4.0) |
| Response sensitivity [mT] | 7.5                            |

### Operating conditions

|                          |                      |
|--------------------------|----------------------|
| Ambient temperature [°C] | -40...180            |
| Protection               | IP 65; IP 68; IP 69K |

# MGT000



## Magnetic sensor

MGK2030-AKOA/R/2M

| Tests / approvals    |                           |                                |
|----------------------|---------------------------|--------------------------------|
| EMC                  | EN 61000-4-2 ESD          | 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        | 1,0 kV line to line, Ri: 2 Ohm |
|                      | EN 61000-4-6 HF conducted | 10 V                           |
|                      | EN 55011                  | class B                        |
| Shock resistance     | EN 60947-5-1              |                                |
| Vibration resistance | EN 60947-5-1              |                                |
| MTTF                 | [ANN]                     | 57078                          |

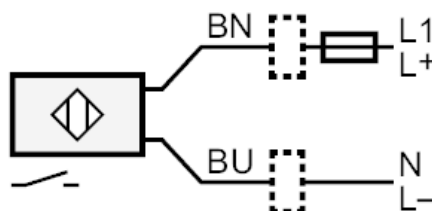
| Mechanical data                   |      |                                                                                                           |
|-----------------------------------|------|-----------------------------------------------------------------------------------------------------------|
| Weight                            | [g]  | 212                                                                                                       |
| Housing                           |      | threaded type                                                                                             |
| Dimensions                        | [mm] | M18 x 1 / L = 66                                                                                          |
| Thread designation                |      | M18 x 1                                                                                                   |
| Materials                         |      | housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); lock nuts: brass |
| Tightening torque for cable gland | [Nm] | 5                                                                                                         |
| Tightening torque                 | [Nm] | 50                                                                                                        |
| Full-metal housing                |      | yes                                                                                                       |

| Electrical connection |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Required protection   | miniature fuse to IEC60127-2 sheet 1; $\leq 0,175$ A; fast acting |

| Аксессуары     |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |

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

| Electrical connection                          |  |
|------------------------------------------------|--|
| Cable: 2 m, silicone; 2 x 0.75 mm <sup>2</sup> |  |
| Connection                                     |  |



Note miniature fuse to IEC60127-2 sheet 1  $\leq 0.175$  A fast acting

Core colours :

BN = brown  
BU = blue