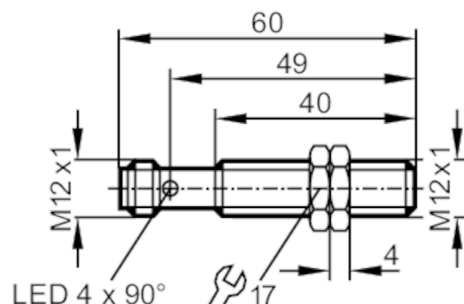




## Full-metal magnetic sensor

MFK3060-BPKG/AM/G/US



### Product characteristics

|                    |                                |
|--------------------|--------------------------------|
| Electrical design  | PNP                            |
| Output function    | normally open                  |
| Sensing range [mm] | 60; (referred to magnet M 4.0) |
| Housing            | threaded type                  |
| Dimensions [mm]    | M12 x 1 / L = 60               |

### Application

|                       |                                          |
|-----------------------|------------------------------------------|
| Special feature       | Gold-plated contacts; Full-metal housing |
| Pressure rating [bar] | 100                                      |

### 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           |
| Switching frequency DC [Hz]                          | 5000          |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

### Detection zone

|                           |                                |
|---------------------------|--------------------------------|
| Sensing range [mm]        | 60; (referred to magnet M 4.0) |
| Response sensitivity [mT] | 1.3                            |

### Accuracy / deviations

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

### Operating conditions

|                          |              |
|--------------------------|--------------|
| Ambient temperature [°C] | -25...75     |
| Protection               | IP 65; IP 67 |

# MFS211



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| 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 emission         | class B                                                                                                                   |
|                                           | DIN ISO 11452-2           | 100 V/m                                                                                                                   |
| MTTF                                      | [years]                   | 1401                                                                                                                      |
| Mechanical data                           |                           |                                                                                                                           |
| Weight                                    | [g]                       | 28.1                                                                                                                      |
| Housing                                   |                           | threaded type                                                                                                             |
| Dimensions                                | [mm]                      | M12 x 1 / L = 60                                                                                                          |
| Thread designation                        |                           | M12 x 1                                                                                                                   |
| Materials                                 |                           | housing: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PA; lock nuts: brass |
| Full-metal housing                        |                           | yes                                                                                                                       |
| Displays / operating elements             |                           |                                                                                                                           |
| Display                                   | switching status          | 4 x 90° LED, yellow                                                                                                       |
| Accessories                               |                           |                                                                                                                           |
| Items supplied                            |                           | lock nuts: 2                                                                                                              |
| Remarks                                   |                           |                                                                                                                           |
| Pack quantity                             |                           | 1 pcs.                                                                                                                    |
| Electrical connection - plug              |                           |                                                                                                                           |
| Connector: 1 x M12; Contacts: gold-plated |                           |                                                                                                                           |
|                                           |                           |                                                                                                                           |





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### Connection

