

# MFS212



## Full-metal magnetic sensor

MF3060-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 |
| 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           |
| 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 [X01] | 1...10 |
|------------------|--------|

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| Operating conditions                                                                |                           |                                                                         |
|-------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|
| Ambient temperature                                                                 | [°C]                      | -40...75                                                                |
| Storage temperature                                                                 | [°C]                      | -40...75                                                                |
| Protection                                                                          |                           | IP 65; 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                                                                 |
|                                                                                     | DIN ISO 11452-2           | 100 V/m                                                                 |
| MTTF                                                                                | [ANN]                     | 1401                                                                    |
| Mechanical data                                                                     |                           |                                                                         |
| Weight                                                                              | [g]                       | 28.5                                                                    |
| Housing                                                                             |                           | threaded type                                                           |
| Dimensions                                                                          | [mm]                      | M12 x 1 / L = 60                                                        |
| Thread designation                                                                  |                           | M12 x 1                                                                 |
| Materials                                                                           |                           | housing: stainless steel; sensing face: stainless steel; LED window: PA |
| Tightening torque for cable gland                                                   | [Nm]                      | 11                                                                      |
| Displays / operating elements                                                       |                           |                                                                         |
| Display                                                                             | switching status          | 1 x LED, yellow                                                         |
| Аксессуары                                                                          |                           |                                                                         |
| Items supplied                                                                      |                           | lock nuts: 2                                                            |
| Remarks                                                                             |                           |                                                                         |
| Pack quantity                                                                       |                           | 1 pcs.                                                                  |
| Electrical connection - plug                                                        |                           |                                                                         |
| Connector: 1 x M12; coding: A; Contacts: gold-plated; Tightening torque: 11 Nm      |                           |                                                                         |
|  |                           |                                                                         |



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### Connection

