

MDRM 18I9524/C270

Magnetic singleturn encoder

Article number: 10166036

Overview

- Immune to dust and dirt
- Free of wear and tear
- Current output up to 270°
- Cable 2 m, open cable end
- Operating temperature -40 ... 85 °C
- Protection IP 67
- Magnetic rotor not included in delivery



Picture similar

Technical data

Technical data - electrical ratings

| | |
|-----------------------------|---------------------|
| Voltage supply | 15...30 VDC |
| Reverse polarity protection | Yes, +Vs to GND |
| Short-circuit proof | Yes |
| Consumption typ. | ≤ 30 mA (w/o load) |
| Interface | Analog 4...20 mA |
| Function | Singleturn |
| Measuring range | 270° (linear) |
| Resolution | 0.09° |
| System accuracy | ±0.25 % |
| Temperature drift | ±0.1 % (Full Scale) |
| Sensing method | Magnetic |
| Response time | < 4 ms |

Technical data - electrical ratings

| | |
|----------|----------|
| Approval | CE UL |
|----------|----------|

Technical data - mechanical design

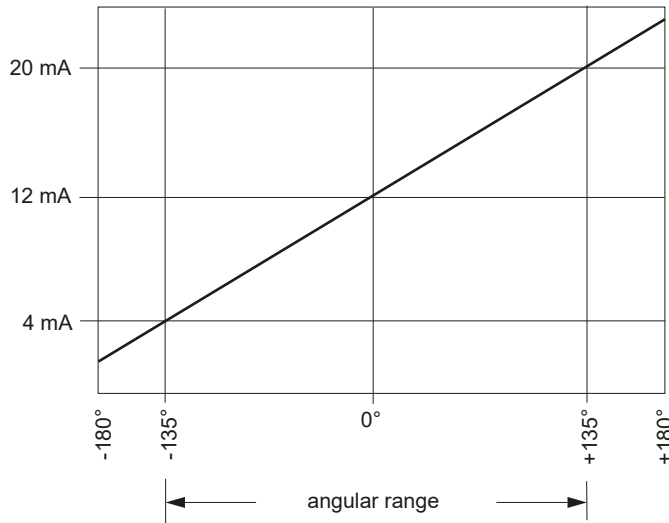
| | |
|-----------------------|---|
| Dimensions | ø18 x 31.5 mm |
| Protection EN 60529 | IP 67 |
| Working distance | ≤ 5 mm (axial, MxFS AA03X08) ≤ 2 mm (axial, MxFN AA01x06) ≤ 0.4 mm (radial) |
| Material | Housing: brass nickel-plated Sensing surface: PBTP |
| Operating temperature | -40...+85 °C |
| Weight approx. | 50 g |
| Connection | Cable 2 m, 3 x 0.25, PUR |

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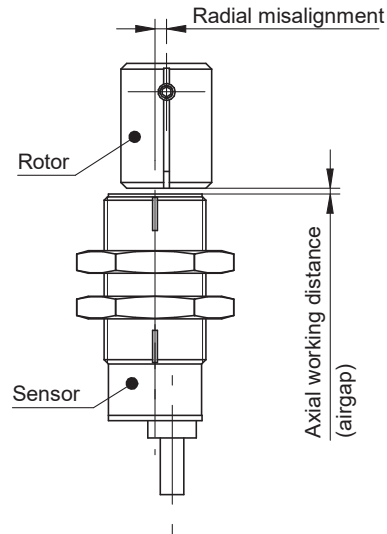
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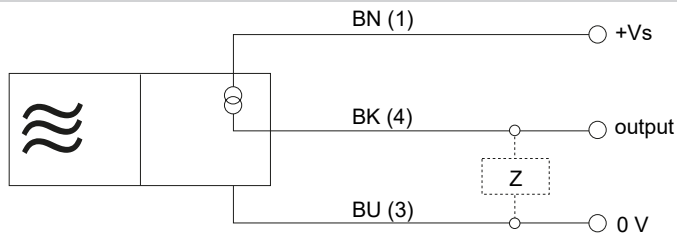
Output signals



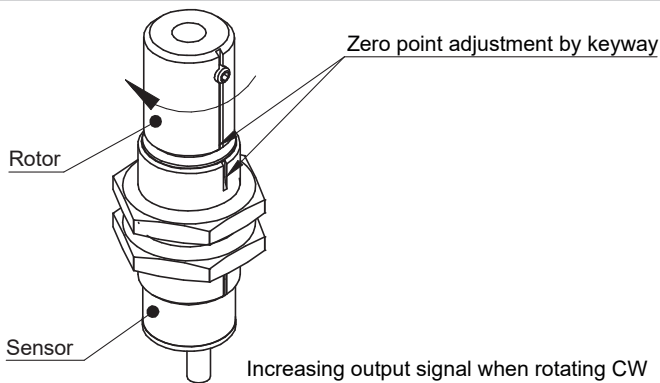
Working distance



Connection diagram



Rotational or linear direction

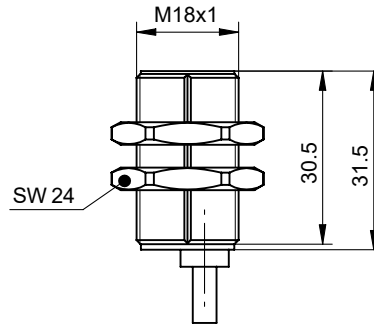


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Dimensions



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Accessories**Mounting accessories**

| | |
|----------|--------------------|
| 10151658 | Sensofix series 18 |
| 11172096 | ZADAP-M18.STANDARD |
| 11171584 | ZADAP-M18.SHORT |
| 11172095 | ZADAP-M18.LONG |