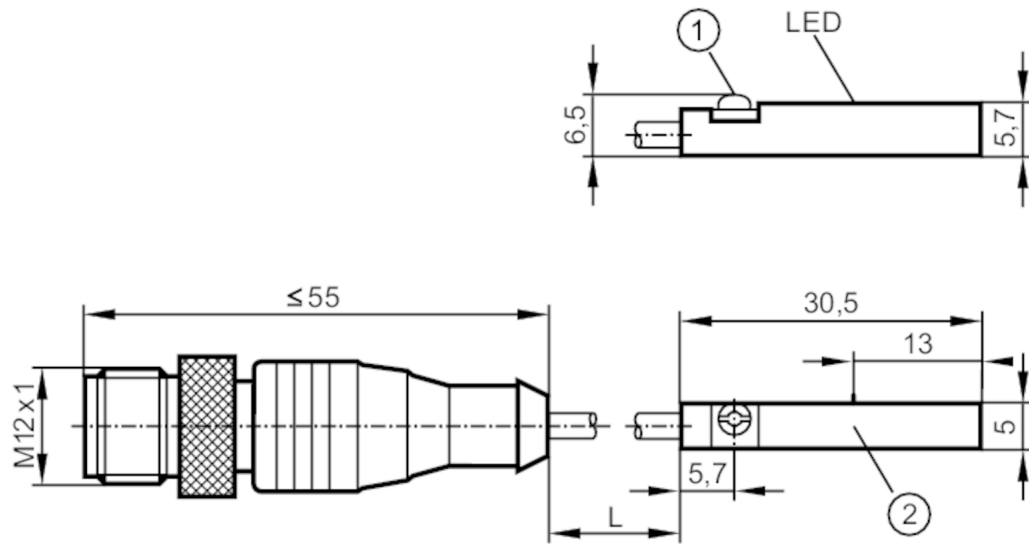


MR0121



T-slot cylinder sensor with reed contact

MRT3021BBKOA/R/0,3M/ZH/US



- 1 fastening clamp with combined slot / hexagon socket head
hexagonal socket AF 1.5
- 2 Sensing face



Product characteristics

| | |
|-------------------|----------------|
| Electrical design | PNP |
| Output function | normally open |
| Dimensions [mm] | 30.5 x 5 x 6.5 |

Electrical data

| | |
|-----------------------------|--|
| Operating voltage [V] | 5...50 AC/DC; (External protective circuit for inductive load (valve, contactor, etc.) necessary.; "supply class 2" according to UL) |
| Protection class | III |
| Reverse polarity protection | no |

Outputs

| | |
|--|---------------|
| Electrical design | PNP |
| Output function | normally open |
| Max. voltage drop switching output DC [V] | 1 |
| Max. voltage drop switching output AC [V] | 1 |
| Permanent current rating of switching output AC [mA] | 350 |
| Permanent current rating of switching output DC [mA] | 500 |
| Switching frequency AC [Hz] | 1000 |
| Switching frequency DC [Hz] | 1000 |
| Max. switching power [W] | 10 |
| Short-circuit proof | no |
| Overload protection | no |

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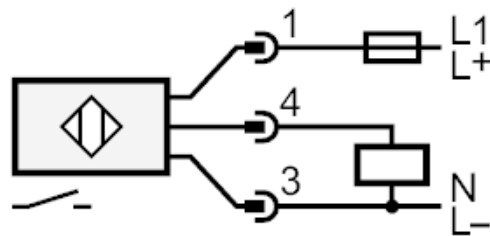
| Detection zone | | |
|---|---|--------------------------------------|
| Response sensitivity | [mT] | 2.1 |
| Travel speed | [m/s] | 10 |
| Accuracy / deviations | | |
| Hysteresis | [mm] | 1 |
| Repeatability | [mm] | < 0.2 |
| Response times | | |
| Max. fall time | [ms] | 0.1 |
| Max. make time incl. bounce | [ms] | 0.6 |
| Operating conditions | | |
| Ambient temperature | [°C] | -25...70 |
| Protection | | IP 65; IP 67 |
| Tests / approvals | | |
| EMC | EN 61000-4-2 ESD | - CD / 8 kV AD |
| | EN 61000-4-3 HF radiated | 10 V/m |
| | EN 61000-4-4 Burst | 2 kV |
| | EN 61000-4-6 HF conducted | 10 V |
| | EN 55011 | class B |
| MTTF | [years] | 20385 |
| UL approval | UL Approval no. | C004 |
| Mechanical data | | |
| Weight | [g] | 21.3 |
| Mounting | | flush mountable |
| Cylinder type | | T-slot cylinders |
| Dimensions | [mm] | 30.5 x 5 x 6.5 |
| Materials | | PA; fastening clamp: stainless steel |
| Switching cycles when connected to PLC | [Mio] | 40 |
| Displays / operating elements | | |
| Display | switching status | 1 x LED, yellow |
| Electrical connection | | |
| Required protection | miniature fuse to IEC60127-2 sheet 1; ≤ 0,75 A; fast acting; DC operation; ≤ 0,6 A; fast acting; AC operation | |
| Accessories | | |
| Accessories (supplied) | rubber placeholder: 1 | |
| | Cable clip: 1 | |
| Remarks | | |
| Pack quantity | 1 pcs. | |
| Electrical connection - plug | | |
| Cable: 0.3 m, PUR | | |
| Connector: 1 x M12; Locking: knurled nut, rotatable | | |

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Note miniature fuse to IEC60127-2 sheet 1

≤ 0.75 A fast acting DC operation

≤ 0.6 A fast acting AC operation