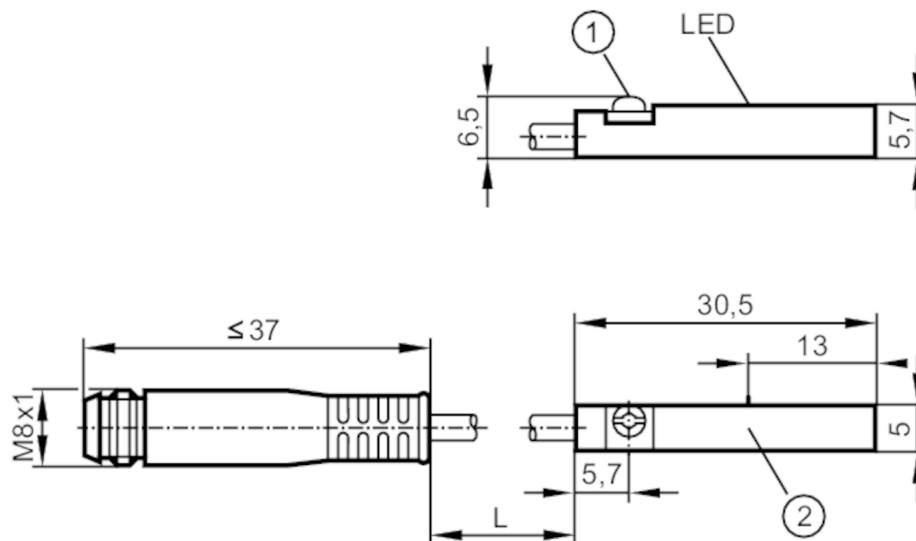




## T-slot cylinder sensor with reed contact

MRT2021BAKOA/R/0,3M/ZH/AS



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



## Electrical data

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| Operating voltage [V]       | 5...50 AC / 5...60 DC; (UL supply class 2: 5...60 DC / 5...30 AC) |
| Protection class            | III                                                               |
| Reverse polarity protection | yes                                                               |

## Outputs

|                                                      |                                                                                           |
|------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Electrical design                                    | PNP/NPN                                                                                   |
| Output function                                      | normally open                                                                             |
| Max. voltage drop switching output DC [V]            | 5                                                                                         |
| Max. voltage drop switching output AC [V]            | 5                                                                                         |
| Permanent current rating of switching output AC [mA] | 100; (External protective circuit for inductive load (valve, contactor, etc.) necessary.) |
| Permanent current rating of switching output DC [mA] | 100; (External protective circuit for inductive load (valve, contactor, etc.) necessary.) |
| Switching frequency AC [Hz]                          | 1000                                                                                      |
| Switching frequency DC [Hz]                          | 1000                                                                                      |
| Max. switching power [W]                             | 10                                                                                        |
| Short-circuit proof                                  | no                                                                                        |
| Overload protection                                  | no                                                                                        |

## Detection zone

|                           |     |
|---------------------------|-----|
| Response sensitivity [mT] | 2.1 |
| Travel speed [m/s]        | 10  |

## Accuracy / deviations

|                    |            |
|--------------------|------------|
| Hysteresis [mm]    | 1          |
| Repeatability [mm] | -0.2...0.2 |

# MR0101



## T-slot cylinder sensor with reed contact

MRT2021BAKOA/R/0,3M/ZH/AS

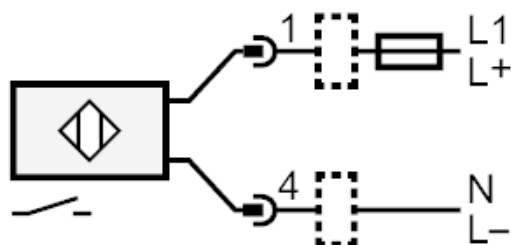
| Response times                         |                           |                                                               |
|----------------------------------------|---------------------------|---------------------------------------------------------------|
| Max. fall time                         | [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 61000-4-5 Surge        | 1 kV line to line, Ri: 2 Ohm                                  |
|                                        | EN 61000-4-6 HF conducted | 10 V                                                          |
|                                        | EN 55011                  | class B                                                       |
| MTTF                                   | [years]                   | 11303                                                         |
| UL approval                            | UL Approval no.           | C004                                                          |
| Mechanical data                        |                           |                                                               |
| Weight                                 | [g]                       | 12                                                            |
| Mounting                               |                           | flush mountable                                               |
| Cylinder type                          |                           | T-slot cylinders                                              |
| Dimensions                             | [mm]                      | 30.5 x 5 x 6.5                                                |
| Materials                              |                           | housing: 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                  |                           |                                                               |
| Connection                             |                           | plug                                                          |
| Required protection                    |                           | miniature fuse to IEC60127-2 sheet 1; ≤ 0,175 A; fast acting  |
| Accessories                            |                           |                                                               |
| Accessories (supplied)                 |                           | rubber placeholder: 1                                         |
|                                        |                           | Cable clip: 1                                                 |
| Remarks                                |                           |                                                               |
| Remarks                                |                           | No LED function in case of polarity reversal in DC operation. |
|                                        |                           | operating voltage "supply class 2" according to UL            |
| Pack quantity                          |                           | 1 pcs.                                                        |
| Electrical connection - plug           |                           |                                                               |
| Cable: 0.3 m, PUR                      |                           |                                                               |
| Connector: 1 x M8; Locking: snap-fit   |                           |                                                               |
|                                        |                           |                                                               |

# MR0101



## T-slot cylinder sensor with reed contact

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