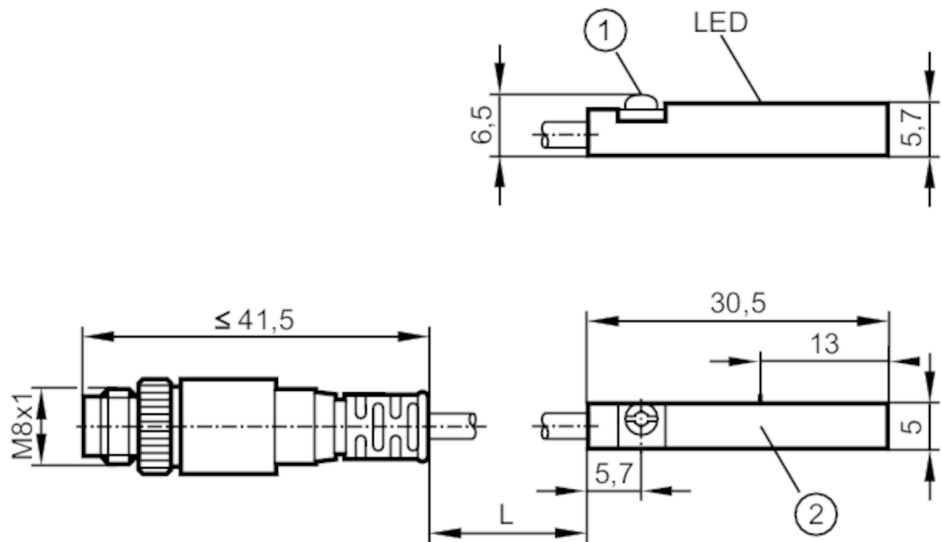




T-slot cylinder sensor with reed contact

MRT2021BAKOA/R/0,3M/ASR



- 1 Fastening clamp with combined slot / hexagon socket head  
hexagonal socket AF 1.5  
2 sensing face



Product characteristics

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

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                                                               |
| 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 protection                             | no                                                                                        |
| Short-circuit proof                                  | no                                                                                        |
| Overload protection                                  | no                                                                                        |

# MR0102



## T-slot cylinder sensor with reed contact

MRT2021BAKOA/R/0,3M/ASR

| Monitoring range                       |                           |                                                               |
|----------------------------------------|---------------------------|---------------------------------------------------------------|
| Magnetic sensitivity                   | [mT]                      | 2.1                                                           |
| Travel speed                           | [m/s]                     | 10                                                            |
| Accuracy / deviations                  |                           |                                                               |
| Hysteresis                             | [mm]                      | 1                                                             |
| Repeatability                          | [mm]                      | -0.2...0.2                                                    |
| Reaction 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 number        | C004                                                          |
| Mechanical data                        |                           |                                                               |
| Weight                                 | [g]                       | 14.5                                                          |
| Mounting                               |                           | flush mountable                                               |
| Cylinder type                          |                           | T-slot cylinders                                              |
| Dimensions                             | [mm]                      | 30.5 x 5 x 6.5                                                |
| Material                               |                           | 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                  |                           |                                                               |
| Required protection                    |                           | miniature fuse to IEC60127-2 sheet 1; ≤ 0,175 A; fast acting  |
| Accessories                            |                           |                                                               |
| Items supplied                         |                           | rubber memory stop: 1                                         |
|                                        |                           | cable clip: 1                                                 |
| Remarks                                |                           |                                                               |
| Remarks                                |                           | No LED function in case of polarity reversal in DC operation. |
|                                        |                           | UL - Class 2 source required                                  |
| Pack quantity                          |                           | 1 pcs.                                                        |

# MR0102



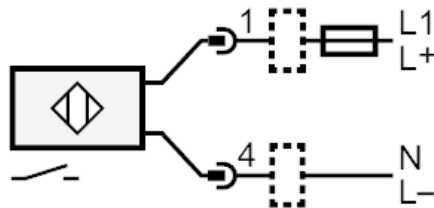
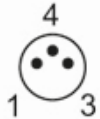
## T-slot cylinder sensor with reed contact

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### Electrical connection - plug

Cable: 0.3 m, PUR

Connector: 1 x M8; coding: A; Locking: Knurled nut, rotatable



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