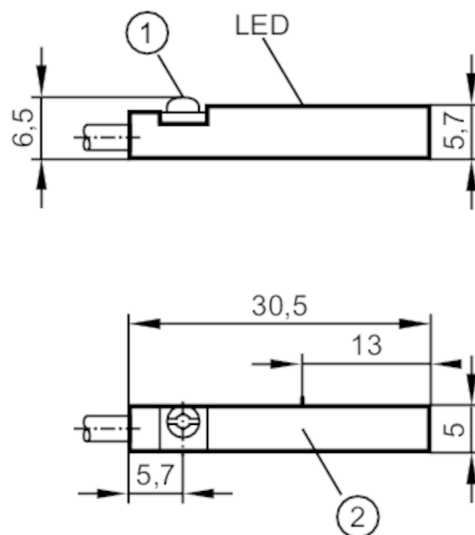




## T-slot cylinder sensor with reed contact

MRT3021BBKOA/R/ZH



- 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. ; cULus - Class 2 source required) |
| Protection class            | III                                                                                                                                  |
| Reverse polarity protection | yes                                                                                                                                  |
| Reverse polarity protection | no                                                                                                                                   |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2             |
| Max. voltage drop switching output AC [V]            | 2             |
| 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 protection                             | no            |
| Short-circuit proof                                  | no            |



## T-slot cylinder sensor with reed contact

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|                               |                                                                                                               |                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------|
| Overload protection           | no                                                                                                            |                 |
| Monitoring range              |                                                                                                               |                 |
| Magnetic sensitivity          | [mT]                                                                                                          | 2.1             |
| Travel speed                  | [m/s]                                                                                                         | 10              |
| Accuracy / deviations         |                                                                                                               |                 |
| Hysteresis                    | [mm]                                                                                                          | 1               |
| Repeatability                 | [mm]                                                                                                          | < 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 61000-4-6 HF conducted                                                                                     | 10 V            |
|                               | EN 55011                                                                                                      | class B         |
| MTTF                          | [years]                                                                                                       | 20385           |
| UL approval                   | UL approval number                                                                                            | C004            |
| Mechanical data               |                                                                                                               |                 |
| Weight                        | [g]                                                                                                           | 28.8            |
| Mounting                      | flush mountable                                                                                               |                 |
| Cylinder type                 | T-slot cylinders                                                                                              |                 |
| Dimensions                    | [mm]                                                                                                          | 30.5 x 5 x 6.5  |
| Material                      | PA; Fastening clamp: stainless steel                                                                          |                 |
| 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                   |                                                                                                               |                 |
| Items supplied                | rubber memory stop: 1                                                                                         |                 |
|                               | cable clip: 1                                                                                                 |                 |
| Remarks                       |                                                                                                               |                 |
| Pack quantity                 | 1 pcs.                                                                                                        |                 |

# MR0122



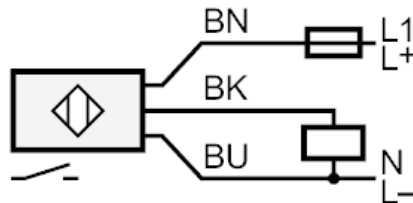
## T-slot cylinder sensor with reed contact

MRT3021BBKOA/R/ZH

### Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm<sup>2</sup>

### Connection



Note miniature fuse to IEC60127-2 sheet 1

≤ 0.75 A fast acting DC operation

≤ 0.6 A fast acting AC operation

Core colors :

BK = black  
BN = brown  
BU = blue