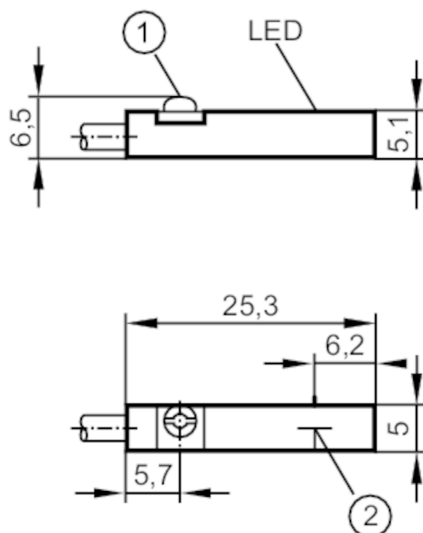


# MK5100



## T-slot cylinder sensor

MKT3028BBPKG/G/ZH



- 1 fastening clamp  
2 Sensing face



### Product characteristics

|                   |               |
|-------------------|---------------|
| Electrical design | PNP           |
| Output function   | normally open |
| Dimensions [mm]   | 25 x 5 x 6.5  |

### Electrical data

|                               |            |
|-------------------------------|------------|
| Operating voltage [V]         | 10...30 DC |
| Current consumption [mA]      | < 10       |
| Protection class              | III        |
| Reverse polarity protection   | yes        |
| Max. power-on delay time [ms] | 30         |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 100           |
| Switching frequency DC [Hz]                          | 10000         |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                           |      |
|---------------------------|------|
| Response sensitivity [mT] | 2.8  |
| Travel speed [m/s]        | > 10 |

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| Accuracy / deviations         |                           |                                                                             |
|-------------------------------|---------------------------|-----------------------------------------------------------------------------|
| Hysteresis                    | [mm]                      | < 1.5                                                                       |
| Repeatability                 | [mm]                      | < 0.2                                                                       |
| Operating conditions          |                           |                                                                             |
| Ambient temperature           | [°C]                      | -25...85                                                                    |
| 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]                   | 3694                                                                        |
| UL approval                   | Ta                        | -25...75 °C                                                                 |
|                               | Enclosure type            | Type 1                                                                      |
|                               | power supply              | Limited Voltage/Current                                                     |
|                               | UL Approval no.           | C003                                                                        |
|                               | File number UL            | E174191                                                                     |
| Mechanical data               |                           |                                                                             |
| Weight                        | [g]                       | 28.2                                                                        |
| Mounting                      |                           | flush mountable                                                             |
| Type of mounting              |                           | fastening clamp with combined slot / hexagon socket, width across flats 1.5 |
| Cylinder type                 |                           | T-slot cylinders                                                            |
| Dimensions                    | [mm]                      | 25 x 5 x 6.5                                                                |
| Materials                     |                           | housing: PA; fastening clamp: stainless steel                               |
| Displays / operating elements |                           |                                                                             |
| Display                       | switching status          | 1 x LED, yellow                                                             |
| Accessories                   |                           |                                                                             |
| Items supplied                |                           | rubber placeholder: 1                                                       |
|                               |                           | Cable clip: 1                                                               |
| Remarks                       |                           |                                                                             |
| Pack quantity                 |                           | 1 pcs.                                                                      |

# MK5100



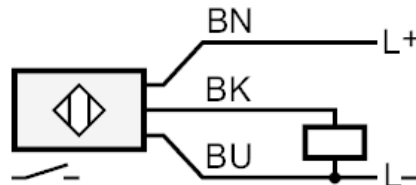
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### Electrical connection

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

### Connection



|      |                |
|------|----------------|
| BK = | Core colours : |
| BN = | black          |
| BU = | brown          |
|      | blue           |