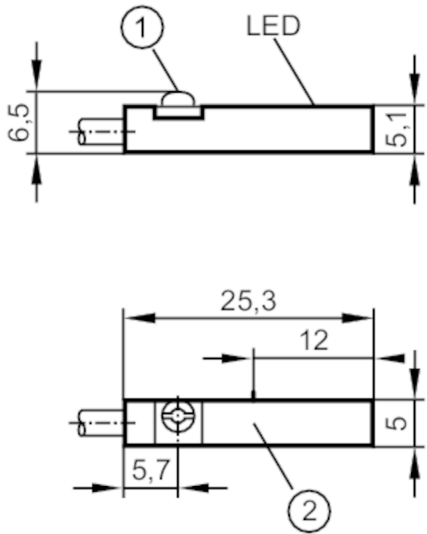


# MK503A



## T-slot cylinder sensor

MKT3020BBPKG/A/6,0M/ZH/3G/3D



- 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]  | 6000          |
| Short-circuit protection                        |       | yes           |
| Overload protection                             |       | yes           |
| Detection zone                                  |       |               |
| Response sensitivity                            | [mT]  | 2             |
| Travel speed                                    | [m/s] | > 10          |
| Accuracy / deviations                           |       |               |
| Hysteresis                                      | [mm]  | 1             |

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|                                      |                           |                                                                                                                |
|--------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------|
| Repeatability                        | [mm]                      | < 0.2                                                                                                          |
| <b>Operating conditions</b>          |                           |                                                                                                                |
| Ambient temperature                  | [°C]                      | -20...60                                                                                                       |
| Protection                           |                           | IP 65; IP 67                                                                                                   |
| <b>Tests / approvals</b>             |                           |                                                                                                                |
| ATEX marking                         |                           |  II 3D Ex tc IIIC T125°C Dc X |
|                                      |                           |  II 3G Ex nA IIC T4 Gc X      |
| 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]                   | 2064                                                                                                           |
| <b>Mechanical data</b>               |                           |                                                                                                                |
| Weight                               | [g]                       | 103.5                                                                                                          |
| 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                                                                  |
| <b>Displays / operating elements</b> |                           |                                                                                                                |
| Display                              | switching status          | 1 x LED, yellow                                                                                                |
| <b>Accessories</b>                   |                           |                                                                                                                |
| Items supplied                       |                           | rubber placeholder: 1                                                                                          |
|                                      |                           | Cable clip: 1                                                                                                  |
|                                      |                           | Protective cover: 1 x T-Nut, E12259                                                                            |
| <b>Remarks</b>                       |                           |                                                                                                                |
| Remarks                              |                           | voltage supply to EN50178, SELV, PELV                                                                          |
| Pack quantity                        |                           | 1 pcs.                                                                                                         |

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### Electrical connection

Cable: 6 m, PUR; 3 x 0.14 mm<sup>2</sup>

### Connection



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