

# MK500A



## T-slot cylinder sensor

MKT3028BBPKG/G/ZH/3D/3G



- 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           |
| Overload protection                             |       | yes           |
| Monitoring range                                |       |               |
| Magnetic sensitivity                            | [mT]  | 2.8           |
| Travel speed                                    | [m/s] | > 10          |
| Accuracy / deviations                           |       |               |
| Hysteresis                                      | [mm]  | < 1.5         |

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|                               |                           |                                                                                                              |
|-------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------|
| Repeatability                 | [mm]                      | < 0.2                                                                                                        |
| Operating conditions          |                           |                                                                                                              |
| Ambient temperature           | [°C]                      | -25...60                                                                                                     |
| Protection                    |                           | IP 65; IP 67                                                                                                 |
| Tests / approvals             |                           |                                                                                                              |
| Approval                      |                           | BVS 24 ATEX E 046 X; IECEx BVS 24.0040X                                                                      |
| ATEX marking                  |                           |  II 3G Ex ec IIC T4 Gc      |
|                               |                           |  II 3D Ex tc IIIC T125°C Dc |
| 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                                                                                                         |
| Mechanical data               |                           |                                                                                                              |
| Weight                        | [g]                       | 59.4                                                                                                         |
| Mounting                      |                           | flush mountable                                                                                              |
| Type of mounting              |                           | fastening clamp with combined slot / hexagon socket, width across flats 1.5                                  |
| Cylinder type                 |                           | T-slot cylinders; (adapters allow mounting to different cylinder types)                                      |
| Dimensions                    | [mm]                      | 25 x 5 x 6.5                                                                                                 |
| Material                      |                           | PA; stainless steel                                                                                          |
| Displays / operating elements |                           |                                                                                                              |
| Display                       | Switching status          | 1 x LED, yellow                                                                                              |
| Accessories                   |                           |                                                                                                              |
| Items supplied                |                           | rubber memory stop: 1                                                                                        |
|                               |                           | cable clip: 1                                                                                                |
|                               |                           | Protective cover: 1 x T-Nut, E12259                                                                          |
| Remarks                       |                           |                                                                                                              |
| Pack quantity                 |                           | 1 pcs.                                                                                                       |

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### Electrical connection

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

### Connection



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