

# MK5215



## T-slot cylinder sensor

MKT3028BBPKG/G/WFI/0,3M/ZH/ASR



- 1 fastening clamp
- 2 Sensing face
- 3 illustration (example)



| Product characteristics                         |      |                                  |
|-------------------------------------------------|------|----------------------------------|
| Electrical design                               |      | PNP                              |
| Output function                                 |      | normally open                    |
| Dimensions                                      | [mm] | 25.3 x 5 x 6.5                   |
| Application                                     |      |                                  |
| Special feature                                 |      | Magnetic-field immune            |
| Operating principle                             |      | suppression of extraneous fields |
| Application                                     |      | welding applications             |
| Magnetic-field immune                           |      | yes                              |
| Max. magnetic field immunity                    | [mT] | 200                              |
| 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] | 300                              |
| 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] | 9                                |
| Short-circuit protection                        |      | yes                              |

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|                               |                                                       |                                                                                                       |                                                                                                  |
|-------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Overload protection           |                                                       | yes                                                                                                   |                                                                                                  |
| Detection zone                |                                                       |                                                                                                       |                                                                                                  |
| Response sensitivity          | [mT]                                                  | 2.8                                                                                                   |                                                                                                  |
| Travel speed                  | [m/s]                                                 | < 0.25                                                                                                |                                                                                                  |
| 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                                                                                          |
| Vibration resistance          | EN 60068-2-6 Fc                                       |                                                                                                       | (10...55 Hz) / 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz |
| Shock resistance              | EN 60068-2-27 Ea                                      |                                                                                                       | 30 g 6 shocks / 11 ms half-sine (x, y, z)                                                        |
| UL approval                   | UL Approval no.                                       |                                                                                                       | C003                                                                                             |
| Mechanical data               |                                                       |                                                                                                       |                                                                                                  |
| Weight                        | [g]                                                   | 17                                                                                                    |                                                                                                  |
| 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]                                                  | 25.3 x 5 x 6.5                                                                                        |                                                                                                  |
| Materials                     |                                                       | housing: PA; fastening clamp: stainless steel; knurled nut: PTFE coated; protective tube: PTFE coated |                                                                                                  |
| Displays / operating elements |                                                       |                                                                                                       |                                                                                                  |
| Display                       | switching status                                      |                                                                                                       | 1 x LED, yellow                                                                                  |
| Accessories                   |                                                       |                                                                                                       |                                                                                                  |
| Items supplied                | rubber placeholder: 1                                 |                                                                                                       |                                                                                                  |
|                               | Cable clip: 1                                         |                                                                                                       |                                                                                                  |
| Remarks                       |                                                       |                                                                                                       |                                                                                                  |
| Remarks                       | operating voltage "supply class 2" according to cULus |                                                                                                       |                                                                                                  |
| Pack quantity                 | 1 pcs.                                                |                                                                                                       |                                                                                                  |

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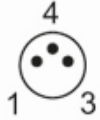
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### Electrical connection - plug

Cable: 0.3 m, PUR; protective tube

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



### Connection

