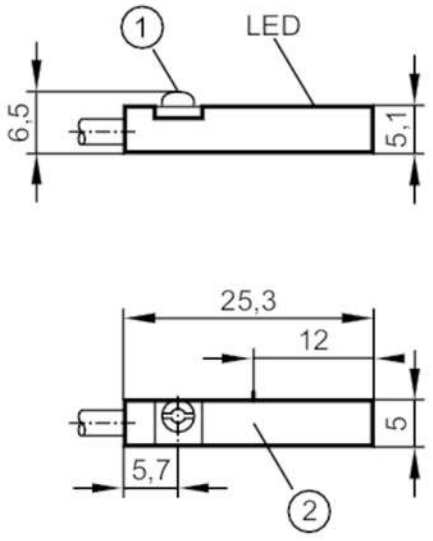
# MK502A

## T-slot cylinder sensor

MKT2020-N/--/A/6,0M/-H/1G/1D




1 fastening clamp
2 sensing face

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | NAMUR |
| Output function | | normally open |
| Dimensions | [mm] | 25 x 5 x 6.5 |
| **Electrical data** | | |
| Connection to switching amplifiers | | yes |
| Switching amplifiers | | connection to certified intrinsically safe circuits with the max. values: U = 15 V / I = 50 mA / P = 120 mW |
| Nominal voltage DC | [V] | 8.2 |
| Current consumption | [mA] | target not detected: ≤ 1; target detected: ≥ 2,2 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | NAMUR |
| Output function | | normally open |
| Switching frequency DC | [Hz] | 2000 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Response sensitivity | [mT] | 2 |
| Travel speed | [m/s] | > 10 |
| **Accuracy / deviations** | | |
| Hysteresis | [mm] | 1 |
| Repeatability | [mm] | < 0.2 |

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| | | | |
|---|---|---|---|
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...70 | |
| Protection | | IP 65; IP 67 | |
| **Tests / approvals** | | | |
| Approval | | BVS 09 ATEX E164; IECEx BVS 09.0065 | |
| ATEX marking | | II 1G Ex ia IIC T4 Ga | |
| | | II 1D Ex ia IIIC T135°C Da | |
| EMC | | EN 61000-4-2 ESD | - kV 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 emission | class B |
| MTTF | [years] | 2142 | |
| **Safety classification** | | | |
| Max. internal capacitance | [nF] | 140 | |
| Max. internal inductance | [µH] | 400 | |
| **Mechanical data** | | | |
| Weight | [g] | 93.9 | |
| 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. | |

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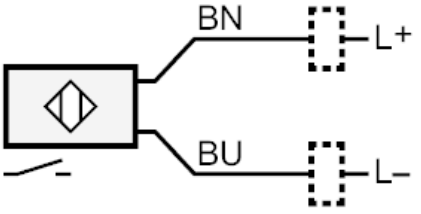
## Electrical connection

Cable: 6 m, PVC; 2 x 0.14 mm²

### Connection




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