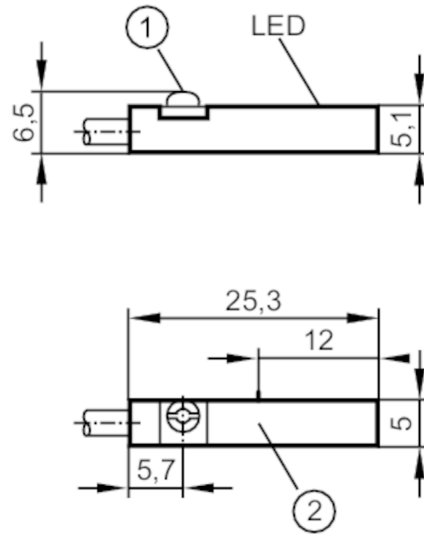


# MK502A



## T-slot cylinder sensor

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



- 1 Fastening clamp  
2 sensing face



### Product characteristics

|                   |                |
|-------------------|----------------|
| Electrical design | NAMUR          |
| Output function   | normally open  |
| Dimensions [mm]   | 25.3 x 5 x 6.5 |

### Electrical data

|                                 |                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Connection at circuit amplifier | yes                                                                                                                                    |
| Switching amplifiers            | connection to certified intrinsically safe circuits with the max. values: $U = 15\text{ V}$ / $I = 50\text{ mA}$ / $P = 120\text{ mW}$ |
| Nominal voltage DC [V]          | 8.2                                                                                                                                    |
| Current consumption [mA]        | Target not detected: $\leq 1$ ; Target detected: $\geq 2,2$                                                                            |
| 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           |

### Monitoring range

|                           |        |
|---------------------------|--------|
| Magnetic sensitivity [mT] | 2      |
| Travel speed [m/s]        | $> 10$ |

### Accuracy / deviations

|                    |         |
|--------------------|---------|
| Hysteresis [mm]    | 1       |
| Repeatability [mm] | $< 0.2$ |

# MK502A



## T-slot cylinder sensor

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

| 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]                      | 25.3 x 5 x 6.5                                                                                               |
| Material                      |                           | housing: PA; Fastening clamp: stainless steel                                                                |
| Displays / operating elements |                           |                                                                                                              |
| Display                       | Switching status          | 1 x LED, yellow                                                                                              |
| Accessories                   |                           |                                                                                                              |
| Items supplied                |                           | rubber memory stop: 1                                                                                        |
|                               |                           | cable clip: 1                                                                                                |
| Remarks                       |                           |                                                                                                              |
| Pack quantity                 |                           | 1 pcs.                                                                                                       |

# MK502A



## T-slot cylinder sensor

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

### Electrical connection

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

### Connection



BN = Core colors :  
brown  
BU = blue