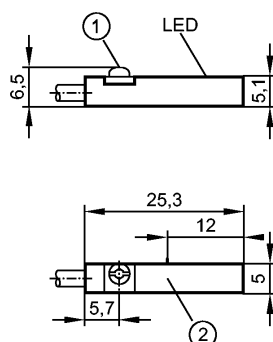


**MK502A**

MKT2020-N/-/A/6.0M/-H/1G/1D

Magnetic sensors, cylinder sensors



1: Fastening clamp  
2: sensing face



Made in Germany

**Product characteristics**

cylinder sensor with AMR cell

Plastic housing for T-slot cylinders

Cable

ATEX approval

Group II, category 1D/1G

[f] flush mountable

Magnetic sensitivity 2 mT

Travel speed &gt; 10 m/s

**Electrical data**

Electrical design	Connection to certified intrinsically safe circuits with the max. values $U = 15 \text{ V}$ / $I = 50 \text{ mA}$ / $P = 120 \text{ mW}$	
Nominal voltage [V]	8.2 DC	
Current consumption [mA]	$\leq 1 \text{ *)}$ / $\geq 2.2 \text{ **})$	
Protection class	III	

**Outputs**

Output function	normally open
Switching frequency [Hz]	2000

**Monitoring range**

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

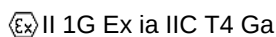
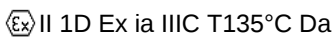
**Accuracy / deviations**

Hysteresis [mm]	1
Repeatability [mm]	< 0.2

**Environment**

Ambient temperature [°C]	-25...70
Protection	IP 65 / IP 67

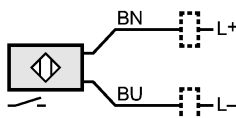
**Tests / approvals**

Approval	BVS 09 ATEX E164 IECEx BVS 09.0065
Marking of the unit	<div>  </div> <div>  </div>
EMC	EN 61000-4-2 ESD: - kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m (80...2000 MHz)

# MK502A

MKT2020-N/-/A/6.0M/-H/1G/1D

Magnetic sensors, cylinder sensors

		EN 61000-4-4 Burst:	2 kV
		EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)
		EN 55011 (Emission):	class B
MTTF	[Years]	2142	
Safety classification			
Internal capacitance	[nF]	140	
Internal inductance	[μH]	400	
Mechanical data			
Mounting		flush mountable	
Housing materials		housing: PA (polyamide); Fastening clamp: stainless steel	
Weight	[kg]	0.086	
Displays / operating elements			
Output status indication	LED	yellow	
Electrical connection			
Connection		PVC cable / 6 m; 2 x 0.14 mm²	
Wiring			
Core colors			
BN	brown		
BU	blue		
			
Accessories			
Accessories (included)		rubber placeholder; cable clip	
Remarks			
Remarks		*) Target not detected **) Target detected Clamping screw with combined slot/hexagon socket head AF 1.5	
Pack quantity	[piece]	1	