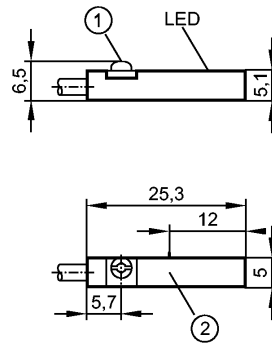


**MK502A**

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 > 10 m/s	
Electrical data	
Electrical design	Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW
Nominal voltage [V]	8.2 DC
Current consumption [mA]	≤ 1 *) / ≥ 2.2 **)
Protection class	III
Outputs	
Output function	normally open
Switching frequency [Hz]	2000
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	Ⓔ 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 (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**

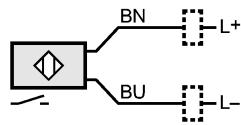
Output status indication	LED	yellow
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**Electrical connection**

Connection	PVC cable / 6 m; 2 x 0.14 mm <sup>2</sup>
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**Wiring**

Core colours  
 BN brown  
 BU blue



**Accessories**

Accessories (included)	rubber placeholder; cable clip
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**Remarks**

Remarks	*) Target not detected **) Target detected Clamping screw with combined slot/hexagon socket head AF 1.5
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Pack quantity	[piece] 1
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