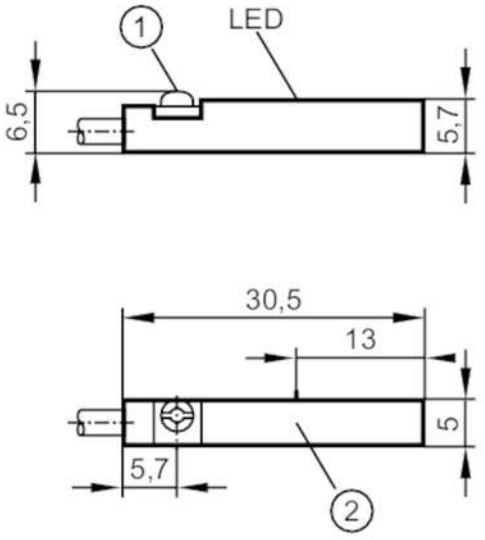
MR500A

T-slot cylinder sensor with reed contact

MRT2021-N/--/R/6,0M/-H/1G/1D



1 fastening clamp with combined slot / hexagon socket head hexagonal socket AF 1.5
2 Sensing face

Product characteristics		
Electrical design		NAMUR
Output function		normally open
Dimensions	[mm]	30.5 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
Short-circuit protection		no
Overload protection		no
Detection zone		
Response sensitivity	[mT]	2.1
Travel speed	[m/s]	10
Accuracy / deviations		
Hysteresis	[mm]	1
Repeatability	[mm]	< 0.2

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Response times			
Max. fall time	[ms]	0.1	
Max. make time incl. bounce	[ms]	0.6	
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]	21140	
Safety classification			
Max. internal capacitance	[nF]	10	
Max. internal inductance	[µH]	400	
Mechanical data			
Weight	[g]	91.2	
Mounting		flush mountable	
Cylinder type		T-slot cylinders	
Dimensions	[mm]	30.5 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			
Remarks		No LED function in case of polarity reversal in DC operation.	
Pack quantity		1 pcs.	

MR500A

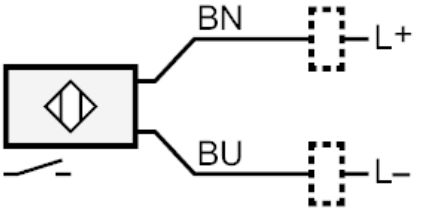
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Electrical connection

Cable: 6 m, PVC; 2 x 0.14 mm²

Connection



	Core colours :
BN =	brown
BU =	blue