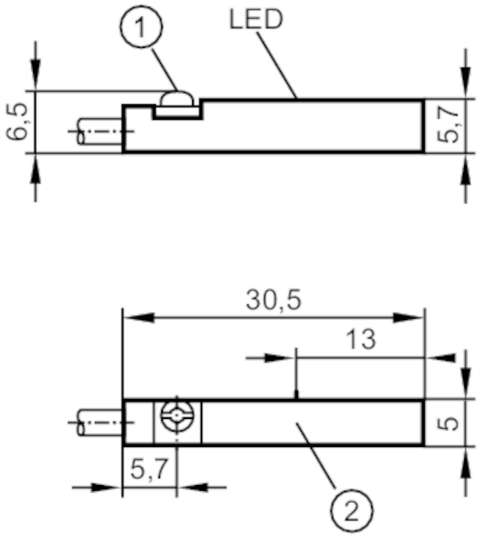
MR0100

T-slot cylinder sensor with reed contact

MRT2021BAKOA/R/ZH



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

Product characteristics		
Electrical design		PNP/NPN
Output function		normally open
Dimensions	[mm]	30.5 x 5 x 6.5
Electrical data		
Operating voltage	[V]	5...120 AC/DC; (UL supply class 2: 5...60 DC / 5...30 AC)
Protection class		II
Reverse polarity protection		yes
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	5
Max. voltage drop switching output AC	[V]	5
Permanent current rating of switching output AC	[mA]	100; (External protective circuit for inductive load (valve, contactor, etc.) necessary.)
Permanent current rating of switching output DC	[mA]	100; (External protective circuit for inductive load (valve, contactor, etc.) necessary.)
Switching frequency AC	[Hz]	1000
Switching frequency DC	[Hz]	1000
Max. switching power	[W]	10
Short-circuit protection		no
Short-circuit proof		no
Overload protection		no

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Detection zone			
Response sensitivity	[mT]	2.1	
Travel speed	[m/s]	10	
Accuracy / deviations			
Hysteresis	[mm]	1	
Repeatability	[mm]	-0.2...0.2	
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			
EMC		EN 61000-4-2 ESD	- CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-5 Surge	2 kV line to line, Ri: 2 Ohm
		EN 61000-4-6 HF conducted	10 V
		EN 55011	class B
MTTF	[years]	11303	
UL approval		UL Approval no.	C004
Mechanical data			
Weight	[g]	26.7	
Mounting		flush mountable	
Cylinder type		T-slot cylinders	
Dimensions	[mm]	30.5 x 5 x 6.5	
Materials		housing: PA; fastening clamp: stainless steel	
Switching cycles when connected to PLC	[Mio]	< 40	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Electrical connection			
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 0,175 A; fast acting	
Accessories			
Items supplied		rubber placeholder: 1	
		Cable clip: 1	
Remarks			
Remarks		No LED function in case of polarity reversal in DC operation.	
		operating voltage "supply class 2" according to UL	
Pack quantity		1 pcs.	

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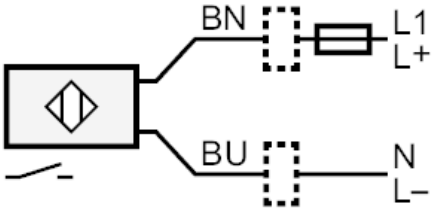
Electrical connection

Cable: 2 m, PUR; 2 x 0.14 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 0.175 A fast acting
Core colours :

BN = brown
BU = blue