



T-slot cylinder sensor with reed contact

MRT2021-NI--/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: $\geq 2,2$
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.	

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Electrical connection

Cable: 6 m, PVC; 2 x 0.14 mm²

Connection



BN = Core colours :
brown
BU = blue