DI501A

Compact evaluation unit for speed monitoring

DIA3010-ZPKG/3D

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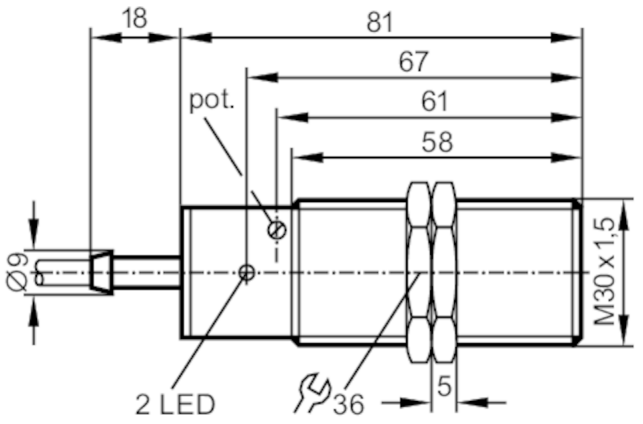

Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	10
Dimensions	[mm]	M30 x 1.5 / L = 81
Application		
Application		simple evaluation of rotating and linear movement with regard to underspeed; blocking
Electrical data		
Nominal voltage DC	[V]	10...36
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Outputs		
Total number of outputs		1
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Short-time current rating of switching output	[mA]	250
Switching frequency DC	[Hz]	100
Short-circuit proof		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	10
Sensing range adjustable		no

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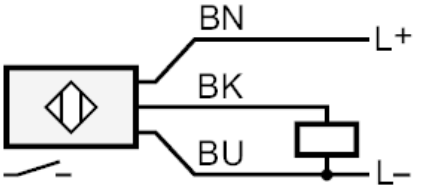
Measuring/setting range			
Setting range	[Imp/min]	5...300	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	10	
Response times			
Start-up delay	[s]	15; (typical)	
Max. damping frequency	[Imp/min]	15000	
Software / programming			
Adjustment of the switch point		multiturn potentiometer	
Operating conditions			
Ambient temperature	[°C]	-20...60	
Protection		IP 67	
Tests / approvals			
ATEX marking		II 3D Ex tD A22 IP67 T80°C X Ta: -20°C...+60°C	
EMC		EN 60947-5-2	
Mechanical data			
Weight	[g]	0.28	
Mounting		flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 81	
Thread designation		M30 x 1.5	
Materials		brass special coating; PBT	
Displays / operating elements			
Display		switching status	1 x LED, green
Electrical connection			

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



Core colours :

BK = black
BN = brown
BU = blue