

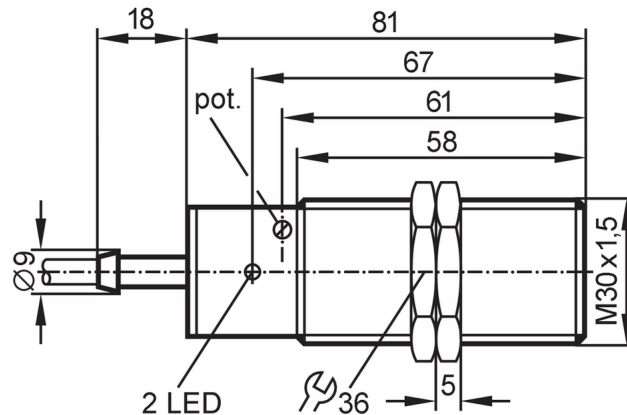
DI501A



Compact evaluation unit for speed monitoring

DIA3010-ZPKG/3D

Article no longer available - archive entry



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 81

Application

Application	simple evaluation of rotating and linear movement with regard to underspeed; blocking
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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

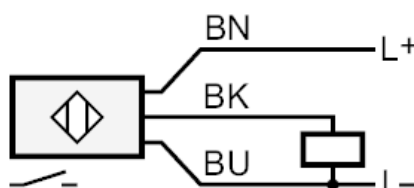
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Measuring/setting range		
Setting range	[Imp/min]	5...300
Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	10
Response times		
Start-up delay	[s]	15; (typical)
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
Housing	threaded type	
Mounting	flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 81
Thread designation	M30 x 1.5	
Materials	housing: brass special coating; sensing face: 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