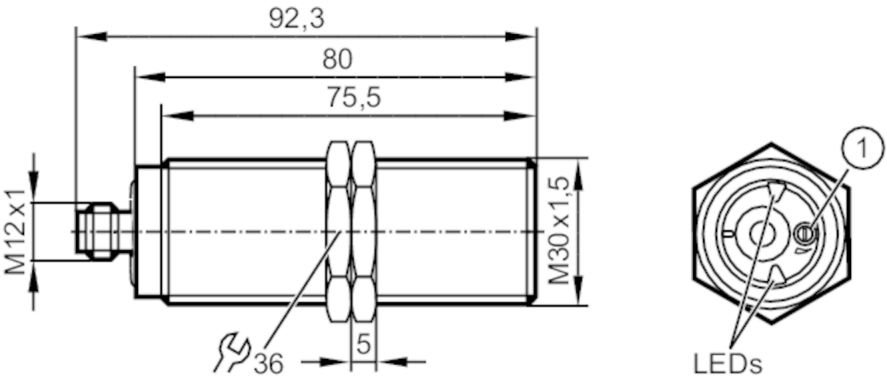


DI521A



Compact evaluation unit for speed monitoring

DIA3010-ZPKG/US/3D



1 potentiometer



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Dimensions [mm]	M30 x 1.5 / L = 92.3

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]	< 20
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
Short-circuit proof	yes
Overload protection	yes

Detection zone

Sensing range [mm]	10
Sensing range adjustable	no
Operating distance [mm]	0...8.1

Measuring/setting range

Setting range [Imp/min]	5...3600
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Measuring principle	inductive		
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		
Max. damping frequency [Imp/min]	18000		
Software / programming			
Adjustment of the switch point	multiturn potentiometer		
Operating conditions			
Ambient temperature [°C]	-25...60		
Storage temperature [°C]	-25...60		
Protection	IP 65; IP 67		
Tests / approvals			
Approval	IECEX BVS 17.0094X		
ATEX marking	 II 3D Ex tc IIIC T80°C Dc X		
EMC	EN 60947-5-2		
Shock resistance	DIN EN 60947-5-2		
Vibration resistance	DIN EN 60947-5-2		
MTTF [years]	3262		
Mechanical data			
Weight [g]	264		
Mounting	flush mountable		
Dimensions [mm]	M30 x 1.5 / L = 92.3		
Thread designation	M30 x 1.5		
Materials	brass special coating; PA; stainless steel; TPE-U		
Displays / operating elements			
Display	switching status	1 x LED, green	
	input signal	1 x LED, yellow	
Accessories			
Items supplied	lock nuts: 2		
Electrical connection			
Connector: 1 x M12; coding: A			
			

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Connection

