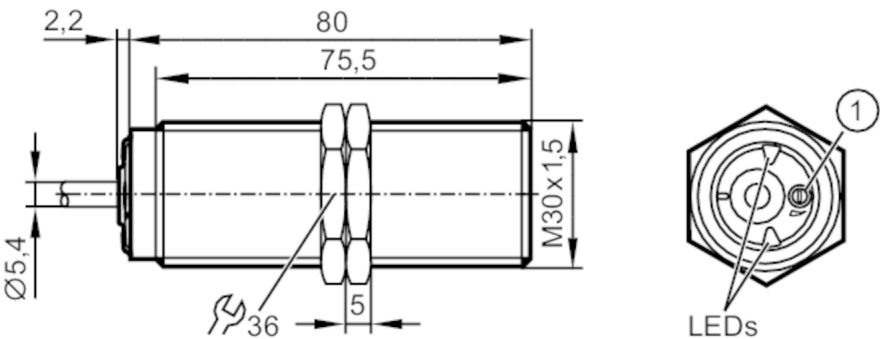


DI520A



Compact evaluation unit for speed monitoring

DIA3010-ZPKG/3D



1 potentiometer



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	10
Dimensions	[mm]	M30 x 1.5 / L = 80
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]	< 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
Real sensing range Sr	[mm]	10 ± 10 %
Operating distance	[mm]	0...8.1
Measuring/setting range		
Setting range	[Imp/min]	5...3600
Measuring principle		inductive

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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]	-20...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	
MTTF [years]	656	
Mechanical data		
Weight [g]	320	
Mounting	flush mountable	
Dimensions [mm]	M30 x 1.5 / L = 80	
Thread designation	M30 x 1.5	
Materials	brass special coating; PA; TPE-U	
Displays / operating elements		
Display	switching status	1 x LED, green
	input signal	1 x LED, yellow
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Remarks	Recommendation Check the safe functioning of the unit after a short circuit.	

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Electrical connection

Cable: 2 m, PUR; 3 x 0.5 mm²

Connection



BK = Core colours :
BN = black
BU = brown
blue