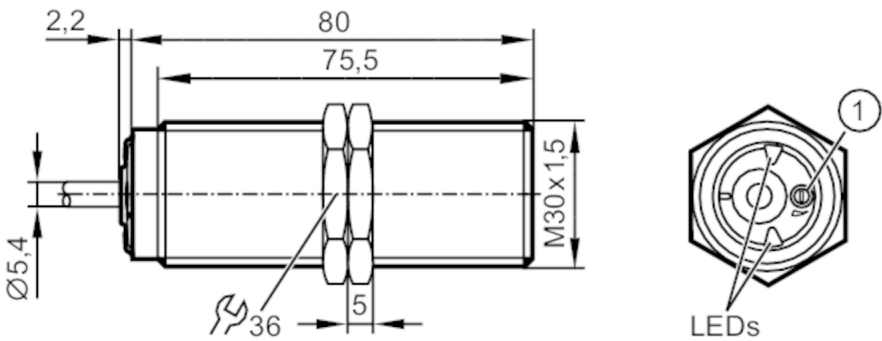




Compact evaluation unit for speed monitoring

DIA3010-ZPKG



1 potentiometer



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	10
Housing		threaded type
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
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]	0
Max. damping frequency	[Imp/min]	18000
Software / programming		
Adjustment of the switch point	multiturn potentiometer	
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-25...80
Protection	IP 65; IP 67	
Tests / approvals		
MTTF	[years]	656
Mechanical data		
Weight	[g]	280.85
Housing	threaded type	
Mounting	flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 80
Thread designation	M30 x 1.5	
Materials	brass special coating; PA; TPE-U	
Tightening torque	[Nm]	50
Displays / operating elements		
Display	switching status	1 x LED, green
Accessories		
Items supplied	lock nuts: 2	

DI5022



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Electrical connection

Cable: 2 m, PUR; 3 x 0.5 mm²

Connection



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