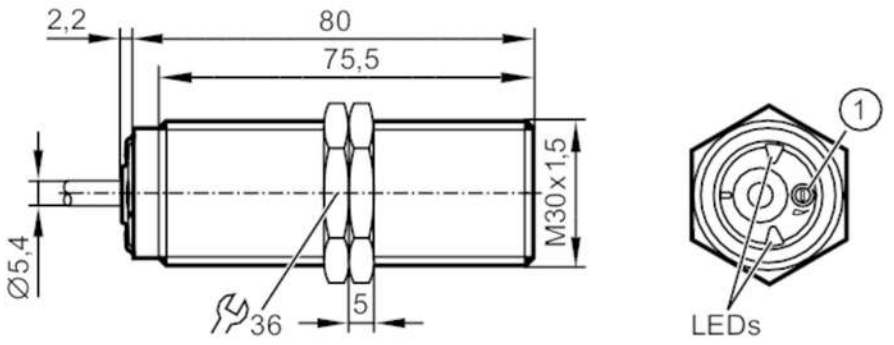
DI5021

Compact evaluation unit for speed monitoring

DIA3010-YPKG



1 potentiometer

Product characteristics		
Electrical design		PNP
Output function		normally closed
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 closed
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

DI5021

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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]		5
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]		283.58
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

DI5021

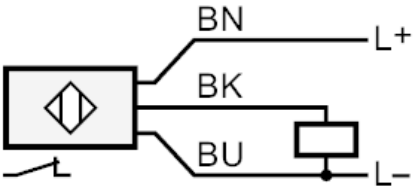
Compact evaluation unit for speed monitoring

DIA3010-YPKG

Electrical connection

Cable: 2 m, PUR; 3 x 0.5 mm²

Connection



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