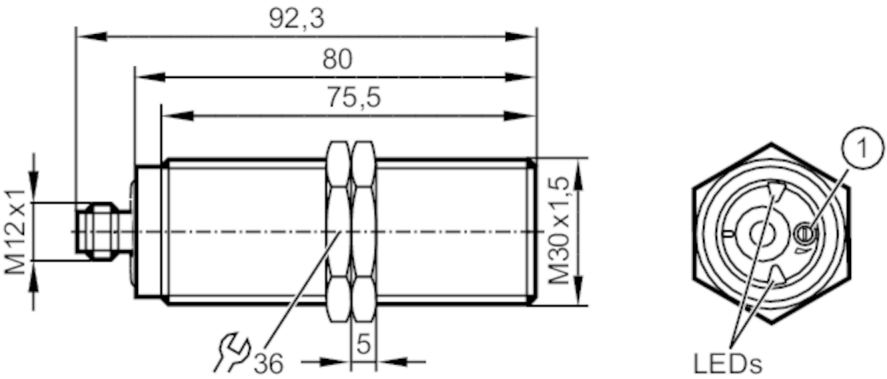


DI521A



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
Housing	Threaded type
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

Monitoring range

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

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Measuring/setting range		
Setting range	[Imp/min]	5...3600
Measuring principle		inductive
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	10
Reaction 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
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 92.3
Thread designation		M30 x 1.5
Material		housing: 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
Remarks		
Pack quantity		1 pcs.

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Electrical connection

Connector: 1 x M12; coding: A



Connection

