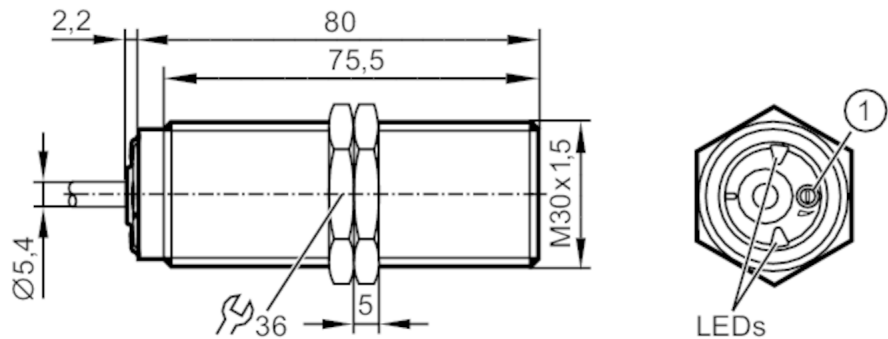


DI523A



Compact evaluation unit for speed monitoring

DIA3010-WRKG/IO/3D



1 potentiometer



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (configurable)
Sensing range [mm]	10
Communication interface	IO-Link
Dimensions [mm]	M30 x 1.5 / L = 80

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]	< 22
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / closed; (configurable)
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
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 / aluminum: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	10	
Reaction times			
Start-up delay		[s] 0...30	
Max. damping frequency		[Imp/min] 18000	
Software / programming			
Adjustment of the switch point		Multiturn potentiometer or IO-Link	
Interfaces			
Communication interface		IO-Link	
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] 322	
Mounting		flush mountable	
Dimensions		[mm] M30 x 1.5 / L = 80	
Thread designation		M30 x 1.5	
Material		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.	

DI523A



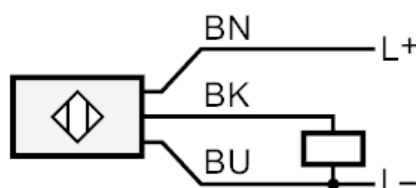
Compact evaluation unit for speed monitoring

DIA3010-WRKG/IO/3D

Electrical connection

Cable: 2 m, PUR; 3 x 0.5 mm²

Connection



BK: OUT / IO-Link
Core colors :
BK = black
BN = brown
BU = blue