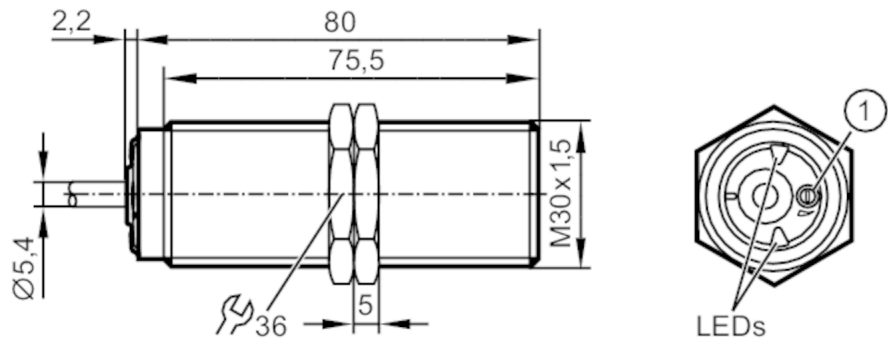


DI523A



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
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
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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
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DIA3010-WRKG/IO/3D

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]	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	
Transmission type	COM2 (38,4 kBaud)	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Multiple switching signal
	Function	Process data variable
	Function	Device diagnosis
	Function	Teach channel
Min. process cycle time [ms]	3.2	
Supported DeviceIDs	Type of operation	DeviceID
	default	734
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	
Housing	Threaded type	
Mounting	flush mountable	
Dimensions [mm]	M30 x 1.5 / L = 80	
Thread designation	M30 x 1.5	
Material	housing: 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	

DI523A



Compact evaluation unit for speed monitoring

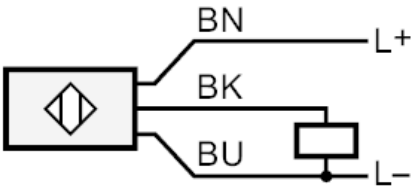
DIA3010-WRKG/IO/3D

Remarks	
Remarks	Recommendation Check the safe functioning of the unit after a short circuit.
Pack quantity	1 pcs.

Electrical connection

Cable: 2 m, PUR; 3 x 0.5 mm²

Connection



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