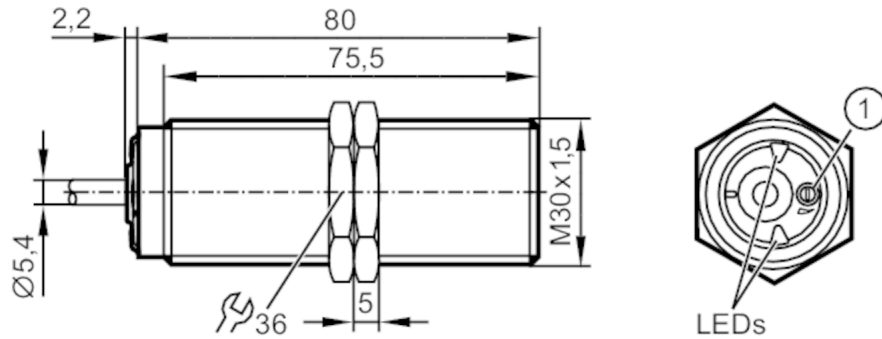


DI520A



Compact evaluation unit for speed monitoring

DIA3010-ZPKG/3D



1 potentiometer



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
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]	< 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
Real sensing range S_r [mm]	$10 \pm 10 \%$
Operating distance [mm]	0...8.1

Measuring/setting range

Setting range [Imp/min]	5...3600
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DI520A



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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] 15
Max. damping frequency		[Imp/min] 18000
Software / programming		
Adjustment of the switch point		multiturn potentiometer
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] 320
Mounting		flush mountable
Dimensions		[mm] M30 x 1.5 / L = 80
Thread designation		M30 x 1.5
Materials		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.

DI520A



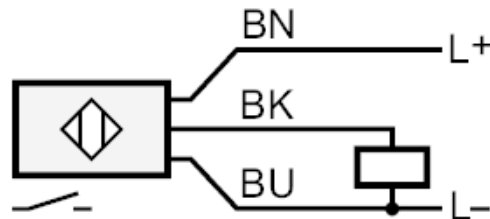
Compact evaluation unit for speed monitoring

DIA3010-ZPKG/3D

Electrical connection

Cable: 2 m, PUR; 3 x 0.5 mm²

Connection



Core colours :

BK =	black
BN =	brown
BU =	blue