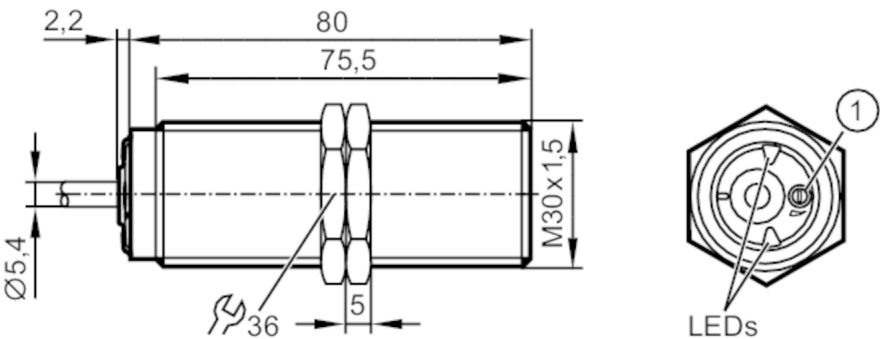


DI103A



Compact evaluation unit for speed monitoring

DIA2010-ZROA/5-3600 I/MIN/3D



1 potentiometer



Product characteristics

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 AC [V]	20...250
Nominal voltage DC [V]	20...250
Nominal frequency AC [Hz]	45...65
Protection class	II
Reverse polarity protection	yes

Outputs

Total number of outputs	1
Output function	normally open
Max. voltage drop switching output DC [V]	7.5
Minimum load current [mA]	6
Max. leakage current [mA]	1.5
Permanent current rating of switching output AC [mA]	200
Permanent current rating of switching output DC [mA]	100
Short-time current rating of switching output [mA]	2200; (20 ms / 0,5 Hz)
Short-circuit proof	no
Overload protection	no

Detection zone

Sensing range [mm]	10
Sensing range adjustable	no
Real sensing range Sr [mm]	10 ± 10 %
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: 0.8 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	10
Response times		
Start-up delay	[s]	12
Max. damping frequency	[Imp/min]	4800
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]	435
Mechanical data		
Weight	[g]	314
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	2 x LED, yellow
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area.
Accessories		
Items supplied		lock nuts: 2
Remarks		
Remarks		Recommendation Check the safe functioning of the unit after a short circuit.

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Electrical connection

Cable: 2 m, PUR; 2 x 0.5 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A (fast acting) Place the fuse outside the hazardous area.
Core colours :
BK = black
WH = white