

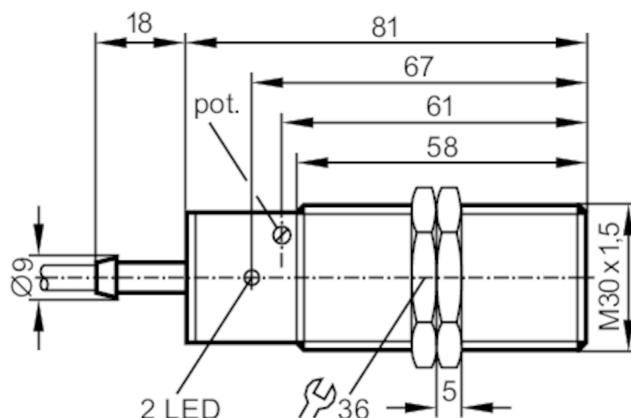


Compact evaluation unit for speed monitoring

DIA2010-ZROA/5-300 I/MIN OAU

Status Archive

DI0104



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
Protection class		II
Reverse polarity protection		no

Outputs

Total number of outputs		1
Output function		normally open
Max. voltage drop switching output DC	[V]	6.5
Minimum load current	[mA]	10
Max. leakage current	[mA]	2.5
Permanent current rating of switching output AC	[mA]	250; (350 AC (...50 °C))
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	2200
Short-circuit proof		no
Overload protection		no

Detection zone

Sensing range	[mm]	10
Sensing range adjustable		no

Measuring/setting range

Setting range	[Imp/min]	5...300
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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]	< 0.5
Max. damping frequency	[Imp/min]	1500
Software / programming		
Adjustment of the switch point	multiturn potentiometer	
Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	350
Mechanical data		
Weight	[g]	257
Mounting	flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 81
Thread designation	M30 x 1.5	
Materials	brass special coating; PBT	
Displays / operating elements		
Display	switching status	1 x LED, green
Electrical connection		
Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Remarks		
Remarks	Recommendation Check the safe functioning of the unit after a short circuit.	

DI0004



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Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A (fast acting)

Core colours :

BN = brown

BU = blue

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