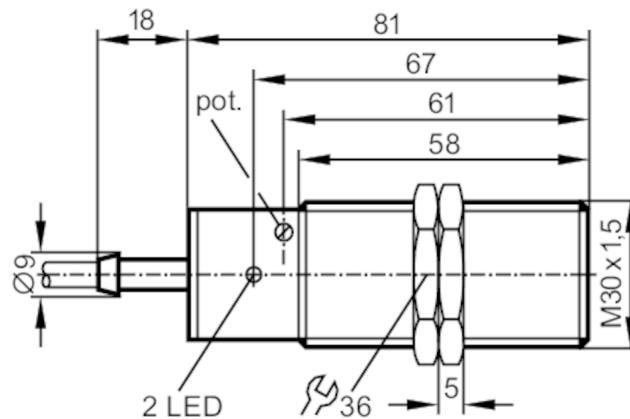


Compact evaluation unit for speed monitoring

DIA2010-ZROA/50-3000 I/MIN/3D

Article no longer available - archive entry



Product characteristics

Output function		normally open
Sensing range	[mm]	10
Dimensions	[mm]	M30 x 1.5 / L = 81

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]	6.5
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
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DI002A



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DIA2010-ZROA/50-3000 I/MIN/3D

Sensing range adjustable		no	
Measuring/setting range			
Setting range		[Imp/min]	50...3000
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]	12; (typical)
Max. damping frequency		[Imp/min]	4000
Software / programming			
Adjustment of the switch point		multiturn potentiometer	
Operating conditions			
Ambient temperature		[°C]	-20...60
Protection		IP 67	
Tests / approvals			
ATEX marking		 II 3D Ex tD A22 IP67 T80°C X Ta: -20°C...+60°C	
EMC		EN 60947-5-2	
Mechanical data			
Weight		[g]	0.274
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
Remarks			
Remarks		Recommendation Check the safe functioning of the unit after a short circuit.	

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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) Place the fuse outside the hazardous area.
Core colours :
BN = brown
BU = blue