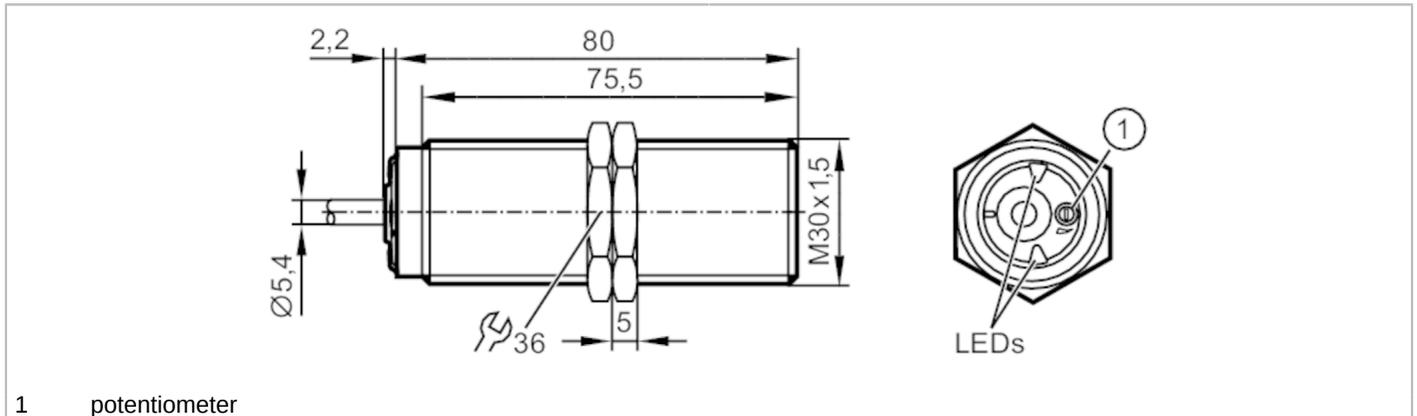


# DI103A



## 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
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 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

### Monitoring range

Sensing range	[mm]	10
Sensing range adjustable		no
Real sensing range Sr	[mm]	10 ± 10 %

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Operating distance	[mm]	0...8.1
<b>Measuring/setting range</b>		
Setting range	[Imp/min]	5...3600
Measuring principle		inductive
<b>Accuracy / deviations</b>		
Correction factor		steel: 1 / stainless steel: 0.8 / brass: 0.5 / aluminum: 0.5 / copper: 0.4
Hysteresis	[% of Sr]	10
<b>Reaction times</b>		
Start-up delay	[s]	12
Max. damping frequency	[Imp/min]	4800
<b>Software / programming</b>		
Adjustment of the switch point		multiturn potentiometer
<b>Operating conditions</b>		
Ambient temperature	[°C]	-20...60
Storage temperature	[°C]	-25...60
Protection		IP 65; IP 67
<b>Tests / approvals</b>		
Approval		IECEX BVS 17.0094X
ATEX marking		 II 3D Ex tc IIIC T80°C Dc X
EMC		EN 60947-5-2
MTTF	[years]	435
<b>Mechanical data</b>		
Weight	[g]	314
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 80
Thread designation		M30 x 1.5
Material		brass special coating; PA; TPE-U
<b>Displays / operating elements</b>		
Display	Switching status	2 x LED, yellow
<b>Electrical connection</b>		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area.
<b>Accessories</b>		
Items supplied		lock nuts: 2
<b>Remarks</b>		
Remarks		Recommendation Check the safe functioning of the unit after a short circuit.
Pack quantity		1 pcs.

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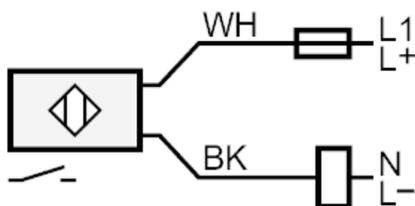
## Compact evaluation unit for speed monitoring

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

### Electrical connection

Cable: 2 m, PUR; 2 x 0.5 mm<sup>2</sup>

### Connection



Note miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A (fast acting) Place the fuse outside the hazardous area.

Core colors :

BK = black

WH = white