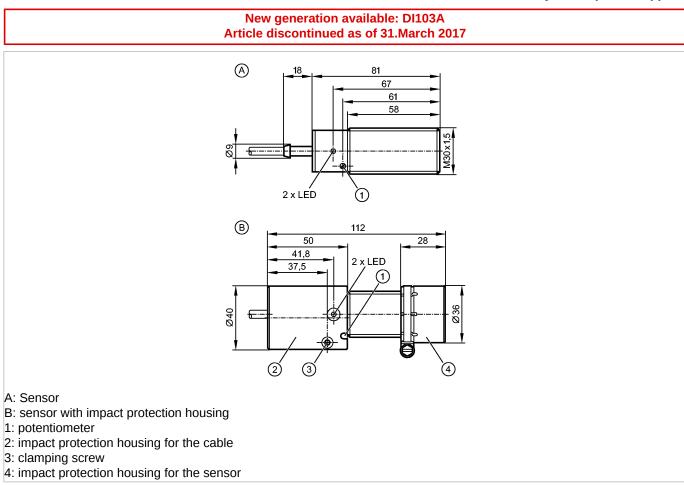
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DI003A

DIA2010-ZROA/3D

Evaluation systems, power supplies



CE

Product characteristics	
Compact speed monitor M30	
DIA	
M30 x 1.5	
Cable	
ATEX approval	
Group II, category 3D	
Inductive sensor	
Sensing range 10 mm [f]	
flush mountable	
Application	
Application	simple evaluation of rotating and linear movement with regard to underspeed; blocking
Switching function	output is switched during the start-up delay and if (f actual) is greater than (f preset)
Electrical design	AC/DC
Switching output	normally open
Electrical data	
Nominal voltage [V	20250 AC/DC (4565 Hz, AC)
Reverse polarity protection	yes
Protection class	II
Outputs	
Transistor	

Transistor

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Current rating (continuous)) [mA]	200 AC / 100 DC
Current rating (peak)	[mA]	î: 2.2 A (20 ms / 0.5 Hz)
Minimum load current	[mA]	> 6
Leakage current	[mA]	< 1.5
Voltage drop	[V]	< 6.5
Short-circuit proof		no
Overload protection		no
Monitoring range		
Sensing range	[mm]	10, without impact protection housing [f], with impact protection housing [nf] 7 mm
Real sensing range (Sr)	[mm]	10 \pm 10 %; without impact protection housing (f)
Operating distance	[mm]	05
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.4 / copper approx. 0.3
Measuring / setting rang		
	ulses/min.]	5300
Adjustment of the switch p	_	multiturn potentiometer
Hysteresis	[% of Sp]	10
Start-up delay	[s]	12 *)
Reaction times	[0]	
Damping frequency (max.) [pulses/min]	,	1500
Environment		
Ambient temperature	[°C]	-2050
Protection		IP 67
Tests / approvals		
Marking of the unit		⟨€x⟩II 3D Ex tc IIIC T80°C Dc IP67 U ***)
EMC		EN 60947-5-2
Safety classification		
MTTF	[a]	347
Mechanical data		
Mounting		flush mountable
Housing materials		brass special coating; PBT (Pocan); PPE; TPE-U
Weight	[kg]	0.358
Displays / operating eler	nents	
Output status indication	LED	green
Electrical connection		
Connection		PVC cable / 2 m; 2 x 0.5 mm ²
Wiring Core colors BN brown BU blue		ֻ שַ נ ו ש ַ נ ו שַ נו
Note: miniature fuse to IEC60127-2 sheet 1, \leq 2 A (fast acting)		

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Place the fuse outside the hazardous area.

Accessories		
Accessories (included)	2 lock nuts; impact protection housing; Mounting clamp	
Remarks		
Remarks	*) typical Recommendation: check the unit for reliable function after a short circuit. ***) only in conjunction with the impact protective housing	
Pack quantity [piece]	1	
ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — DI003A — 31.08.2012		
New generation available: DI103A Article discontinued as of 31.March 2017		