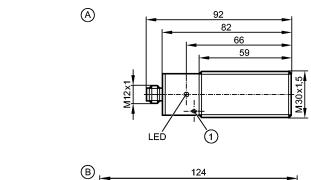
ecomatzoo

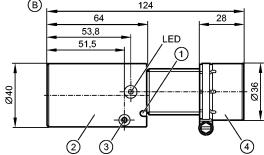
DI505A

DIA3010-ZPKG/US/3D

Evaluation systems, power supplies







- A: Sensor
- B: sensor with impact protection housing
- 1: potentiometer
- 2: impact protection housing for the connector
- 3: clamping screw
- 4: impact protection housing for the sensor

(€

Product characteristics	
Compact speed monitor M30	
DIA	
M30 x 1.5	
Quick disconnect	
ATEX approval	
Group II, category 3D	
Inductive sensor	
Sensing range 10 mm [f]	
flush mountable	

Sensing range 10 min [i]		
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	Electrical design DC PNP	
Switching output		normally open
Electrical data		
Nominal voltage	[V]	1036 DC
Current consumption	[mA]	< 15
Reverse polarity protection		yes
Protection class		III

Outputs

Transistor

Current rating (continuous)	[mA]	250

ecomatzoo



DIA3010-ZPKG/US/3D

Reaction times



Evaluation systems, power supplies

Current rating (peak)	[mA]	250
Switching frequency	[Hz]	100
Voltage drop	[V]	< 2.5
Short-circuit proof		yes
Overload protection		yes

Monitoring range		
Sensing range	[mm]	10, without impact protection housing [f], with impact protection housing [nf] 7 mm
Real sensing range (Sr)	[mm]	10 ± 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 / setti	Measuring / setting range		
Setting range	[pulses/min.]	5300	
Adjustment of the	switch point	multiturn potentiometer	
Hysteresis	[% of Sp]	10	
Start-up delay	[s]	15 *)	

Damping frequency (max.) [pulses/min]		15000
Environment		
Ambient temperature	[°C]	-2050
Protection		IP 67

Tests / approvals	
Marking of the unit	
EMC	EN 60947-5-2

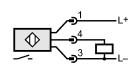
Mechanical data		
Mounting		flush mountable
Housing materials		brass special coating; PBT; PPE; TPE-U; PA 6.6
Weight	[kg]	0.303
Displays / operating el	ements	

Displays / operating elements		
Input pulses	LED	yellow
Output status indication	LED	green

Electrical connection		
Connection	M12 connector	



Remarks



Accessories	
Accessories (included)	2 lock nuts; impact protection housing; Mounting clamp
Remarks	

*) typical



DI505A

DIA3010-ZPKG/US/3D



Evaluation systems, power supplies

		***) 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 — DI505A — 31.08.2012