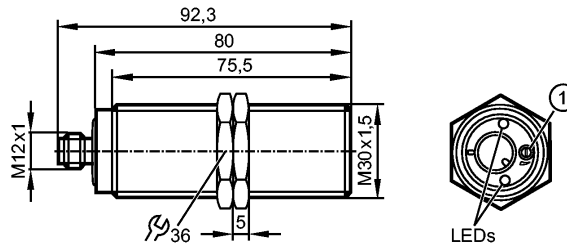


DI522A

DIA3010-ZPKG/US/3D/5S

Evaluation systems, power supplies



1: potentiometer



Product characteristics

Compact speed monitor M30
DIA
M30 x 1.5
Connector
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	DC PNP
Switching output	normally open

Electrical data

Nominal voltage [V]	10...36 DC
Current consumption [mA]	< 20
Reverse polarity protection	yes
Protection class	III

Outputs

Transistor	
Current rating (continuous) [mA]	250
Current rating (peak) [mA]	250
Voltage drop [V]	< 2.5
Short-circuit proof	yes
Overload protection	yes

Detection range

Sensing range [mm]	10
Operating distance [mm]	0...8.1
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3

Measuring / setting range

Setting range [pulses/min.]	5...3600
Adjustment of the switch point	multiturn potentiometer

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Hysteresis	[% of Sp]	10
Start-up delay	[s]	5

Response times

Damping frequency (max.)	[pulses/min]	18000
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Environment

Ambient temperature	[°C]	-25...60
Protection		IP 65 / IP 67

Tests / approvals

Marking of the unit		Ⓔ II 3D Ex tc IIIC T80°C Dc X
EMC		EN 60947-5-2
Shock resistance		DIN EN 60947-5-2
Vibration resistance		DIN EN 60947-5-2

Safety classification

MTTF	[a]	3262
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Mechanical data

Mounting		flush mountable
Housing materials		Brass special coating; PA; stainless steel; TPE-U
Weight	[kg]	0.267

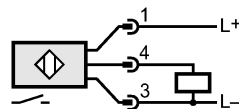
Displays / operating elements

Input pulses	LED	yellow
Output status indication	LED	green

Electrical connection

Connection		M12 connector
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Wiring



Accessories

Accessories (included)		2 lock nuts
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Remarks

Pack quantity	[piece]	1
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