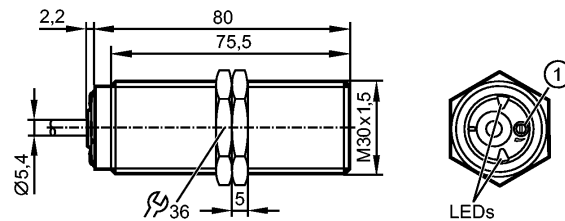


DI5020

DIA3010-ZPKG

Evaluation systems, power supplies



1: potentiometer



Product characteristics

Compact speed monitor M30

DIA

M30 x 1.5

Cable

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

Monitoring 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 / aluminium approx. 0.4 / copper approx. 0.3

Measuring / setting range

Setting range [pulses/min.]	5...3600
Adjustment of the switch point	multiturn potentiometer
Hysteresis [% of Sp]	10
Start-up delay [s]	15

Reaction times

DI5020

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

Ambient temperature	[°C]	-25...80
Protection		IP 65 / IP 67

Safety classification

MTTF	[a]	656
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Mechanical data

Mounting		flush mountable
Housing materials		brass special coating; PA (polyamide); TPE-U
Weight	[kg]	0.302

Displays / operating elements

Input pulses	LED	yellow
Output status indication	LED	green

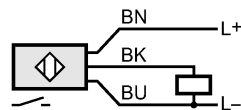
Electrical connection

Connection		PUR cable / 2 m; 3 x 0.5 mm²
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Wiring

Core colors

BK	black
BN	brown
BU	blue



Accessories

Accessories (included)		2 lock nuts
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Remarks

Pack quantity	[piece]	1
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