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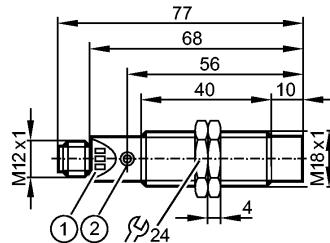
ecomat200

DI601A



DGA3012-WPKG/US/3D

Evaluation systems, power supplies



1: 3 LED

2: setting pushbutton



Product characteristics

Compact speed monitor M18

DGA

Quick disconnect

ATEX approval

Group II, category 3D

gold-plated contacts

Switching output and pulse output

Inductive sensor

Sensing range 12 mm [nf]

non-flush mountable

Application

Application

Evaluation of rotating and linear movements for speed below the preset value, blockage

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 / closed programmable

Electrical data

Nominal voltage [V]

10...36 DC

Current consumption [mA]

< 15

Reverse polarity protection

yes

Protection class

II

Outputs

Transistor

Current rating [mA]

150 / 15 **)

Voltage drop [V]

< 2.5

Short-circuit protection

yes (non-latching)

Overload protection

yes

Monitoring range

Sensing range [mm]

12

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.]

3...6000

Adjustment of the switch point

Teach function

Hysteresis [% of Sp]

10

Start-up delay [s]

0...15

Reaction times

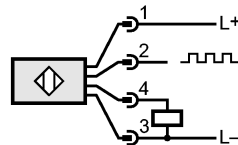
Damping frequency (max.) [pulses/min]

18000

DI601A - Compact speed monitor M18 - eclass: 27230220 / 27-23-02-20

Environment		
Ambient temperature	[°C]	-20...50, -20...60°C when used outside the ATEX area
Protection		IP 67
Tests / approvals		
Marking of the unit		⊕ II 3D Ex tD A22 IP67 T 80°C X ***)
EMC		EN 60947-5-2
Safety classification		
MTTF	[a]	1031
Mechanical data		
Mounting		non-flush mountable
Housing materials		stainless steel 316Ti / 1.4571; PBT
Weight	[kg]	0.171
Displays / operating elements		
Power	LED	green
Input pulses	LED	green
Output status indication	LED	yellow
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring



- 1: L+
- 2: pulse output (the pulse sequence corresponds to the damping frequency)
- 3: L-
- 4: switching output (adjustable)

Accessories		
Accessories (included)		impact protection housing; 2 lock nuts
Remarks		
Remarks		*) factory setting **) switching output / pulse output; 250 / 15 mA when used outside the ATEX area ***) only in conjunction with the impact protective housing
Pack quantity	[piece]	1

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