

1: 3 LED
2: setting pushbutton



Product characteristics

Compact speed monitor M18

DGA

M18 x 1

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]

250 / 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. 0.8 / 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

Environment

Ambient temperature [°C]

-20...80

Protection

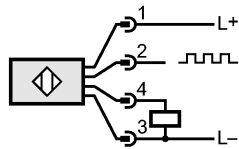
IP 67

Tests / approvals

DI6001 - Compact speed monitor M18 - eclass: 27230220 / 27-23-02-20

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]	0.065
Displays / operating elements		
Power	LED	green
Input pulses	LED	green
Output status indication	LED	yellow
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring



2: pulse output (the pulse sequence corresponds to the damping frequency)
 4: switching output (adjustable)

Remarks

Remarks

- *) factory setting
- **) cULus - Class 2 source required
- ***) switching output / pulse output

Pack quantity

[piece]

1