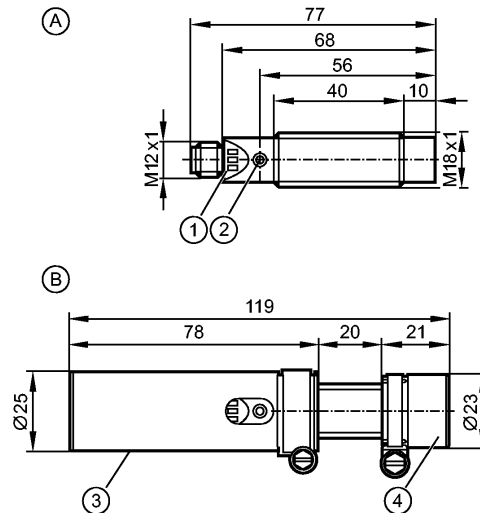




- A: Sensor  
B: sensor with impact protection housing  
1: 3 LED  
2: setting pushbutton  
3: impact protection housing for the connector  
4: impact protection housing for the sensor



Made in Germany

## Product characteristics

Compact speed monitor M18

DGA

Connector

ATEX approval

Group II, category 3D

gold-plated contacts

Switching output and pulse output

Sensing range 8 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

pulsed

Overload protection

yes

Range

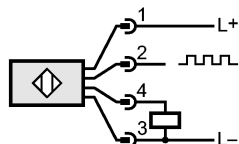
Sensing range [mm]

8

# DI602A - Compact speed monitor M18 - eclass: 27230220 / 27-23-02-20

|                                       |                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------|
| Operating distance [mm]               | 0...6                                                                                              |
| 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.]           | 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...50, -20...60°C when used outside the ATEX area                                               |
| Protection                            | IP 67                                                                                              |
| Tests / approvals                     |                                                                                                    |
| Marking of the unit                   | Ex II 3D Ex tc IIIC T80°C Dc IP67 U ***)                                                           |
| EMC                                   | EN 60947-5-2                                                                                       |
| Mechanical data                       |                                                                                                    |
| Mounting                              | non-flush mountable                                                                                |
| Housing materials                     | stainless steel 316Ti / 1.4571; PBT; TPE-U                                                         |
| Weight [kg]                           | 0.176                                                                                              |
| Displays / operating elements         |                                                                                                    |
| Operation 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) | 2 lock nuts; impact protection housing; Mounting clamps                                                                                                                              |
| Remarks                |                                                                                                                                                                                      |
| Remarks                | <p>*) factory setting</p> <p>**) switching output / pulse output; 250 / 15 mA when used outside the ATEX area</p> <p>***) only in conjunction with the impact protective housing</p> |
| Pack quantity [piece]  | 1                                                                                                                                                                                    |