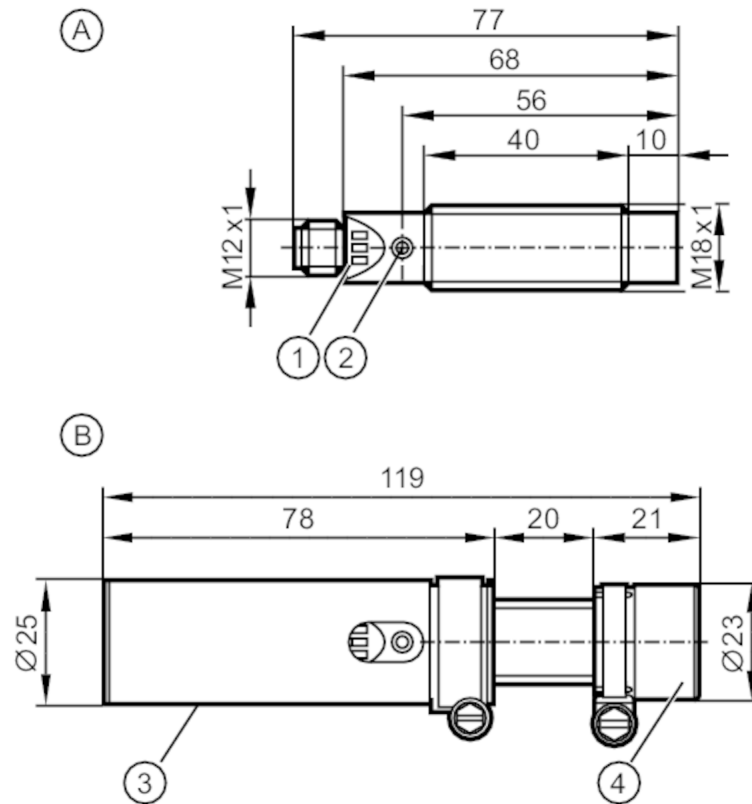


## Compact evaluation unit for speed monitoring

DGA4012-WPKG/US/3D



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



### Product characteristics

|                    |                                                    |
|--------------------|----------------------------------------------------|
| Electrical design  | PNP                                                |
| Output function    | normally open / normally closed; (parameterisable) |
| Sensing range [mm] | 8                                                  |
| Dimensions [mm]    | M18 x 1 / L = 68                                   |

### Application

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| Special feature | Gold-plated contacts                                                            |
| Application     | evaluation of rotating and linear movements with regard to underspeed; blocking |

### Electrical data

|                             |         |
|-----------------------------|---------|
| Nominal voltage DC [V]      | 10...36 |
| Current consumption [mA]    | < 15    |
| Protection class            | II      |
| Reverse polarity protection | yes     |



## Compact evaluation unit for speed monitoring

DGA4012-WPKG/US/3D

| Outputs                                              |                                                                                                                      |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Electrical design                                    | PNP                                                                                                                  |
| Output function                                      | normally open / normally closed; (parameterisable)                                                                   |
| Max. voltage drop switching output DC [V]            | 2.5                                                                                                                  |
| Permanent current rating of switching output DC [mA] | 150; (when used outside the hazardous area: 250; Pulse output: 15)                                                   |
| Short-circuit protection                             | yes                                                                                                                  |
| Type of short-circuit protection                     | pulsed                                                                                                               |
| Overload protection                                  | yes                                                                                                                  |
| Detection zone                                       |                                                                                                                      |
| Sensing range [mm]                                   | 8                                                                                                                    |
| Sensing range adjustable                             | no                                                                                                                   |
| Operating distance [mm]                              | 0...6                                                                                                                |
| Measuring/setting range                              |                                                                                                                      |
| Setting range [Imp/min]                              | 3...6000                                                                                                             |
| Accuracy / deviations                                |                                                                                                                      |
| Correction factor                                    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3                                          |
| Hysteresis [% of Sr]                                 | 10                                                                                                                   |
| Response times                                       |                                                                                                                      |
| Start-up delay [s]                                   | 0...15                                                                                                               |
| Max. damping frequency [Imp/min]                     | 18000                                                                                                                |
| Software / programming                               |                                                                                                                      |
| Adjustment of the switch point                       | Teach function                                                                                                       |
| Operating conditions                                 |                                                                                                                      |
| Ambient temperature [°C]                             | -20...50                                                                                                             |
| Note on ambient temperature                          | when used outside the hazardous area: -20...60 °C                                                                    |
| Storage temperature [°C]                             | -25...60                                                                                                             |
| Protection                                           | IP 67                                                                                                                |
| Tests / approvals                                    |                                                                                                                      |
| ATEX marking                                         |  II 3D Ex tc IIIC T80°C Dc IP67 U |
| Note on ATEX marking                                 | only in conjunction with the impact protection housing                                                               |
| EMC                                                  | EN 60947-5-2                                                                                                         |
| MTTF [years]                                         | 1051                                                                                                                 |
| Mechanical data                                      |                                                                                                                      |
| Weight [g]                                           | 177                                                                                                                  |
| Mounting                                             | non-flush mountable                                                                                                  |
| Dimensions [mm]                                      | M18 x 1 / L = 68                                                                                                     |
| Thread designation                                   | M18 x 1                                                                                                              |
| Materials                                            | stainless steel (1.4571/316Ti ); PBT; TPE-U                                                                          |

# DI602A



## Compact evaluation unit for speed monitoring

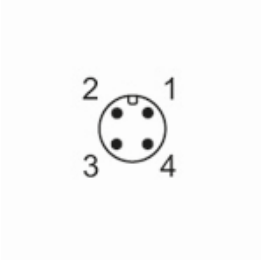
DGA4012-WPKG/US/3D

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |
|                               | operation        | 1 x LED, green  |
|                               | input signal     | 1 x LED, green  |

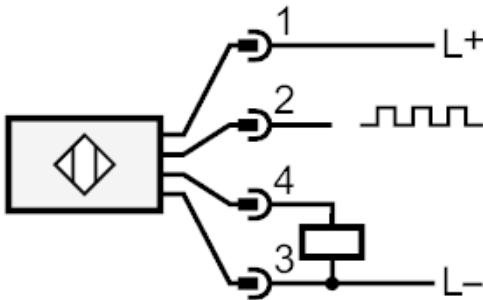
| Accessories    |                           |
|----------------|---------------------------|
| Items supplied | lock nuts: 2              |
|                | Impact protection housing |
|                | Mounting clamps           |

### Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated



### Connection



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