

DI602A



Compact evaluation unit for speed monitoring

DGA4012-WPKG/US/3D

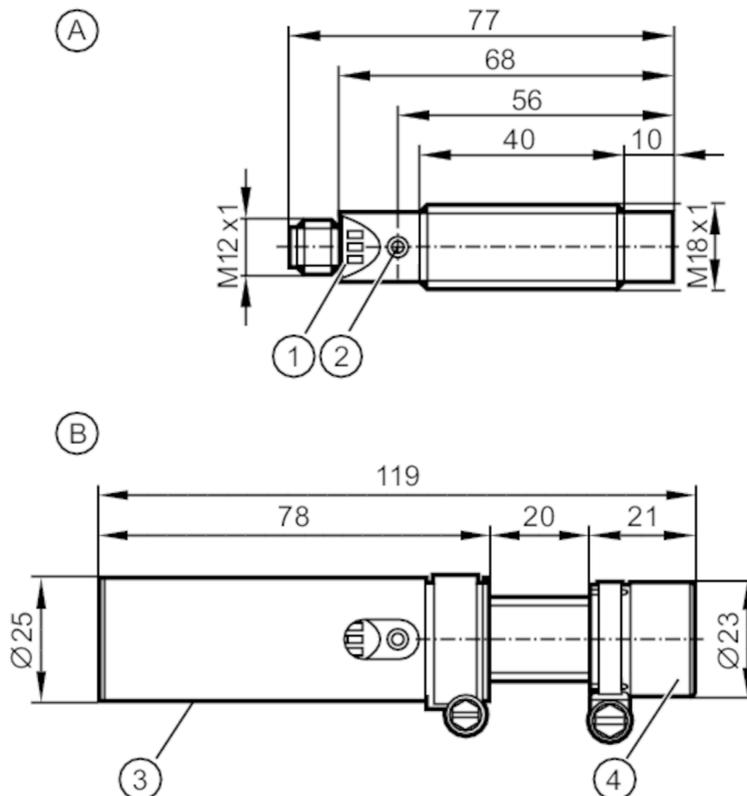
Article to be discontinued

Discontinuation date: 03/31/2025

Alternative articles: DI604A or DI605A

When selecting an alternative article and accessories please note that technical data may differ!

Please do not use for new projects.



- 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 / closed; (configurable) |
| Sensing range [mm] | 8 |
| Housing | tubular |
| Dimensions [mm] | M18 x 1 / L = 119 |
| Application | |
| System | gold-plated contacts |
| Application | evaluation of rotating and linear movements with regard to underspeed; blocking |
| Electrical data | |
| Nominal voltage DC [V] | 10...36 |

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| | | |
|---|-----------|--|
| Current consumption | [mA] | < 15 |
| Protection class | | II |
| Reverse polarity protection | | yes |
| Outputs | | |
| Electrical design | | PNP |
| Output function | | normally open / closed; (configurable) |
| 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 | | yes (non-latching) |
| Overload protection | | yes |
| Monitoring range | | |
| Sensing range | [mm] | 8 |
| Sensing range adjustable | | no |
| Operating distance | [mm] | 0...6 |
| Measuring/setting range | | |
| Setting range | [Imp/min] | 3...6000 |
| Measuring principle | | inductive |
| Accuracy / deviations | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 10 |
| Reaction 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 protective housing |
| EMC | | EN 60947-5-2 |
| MTTF | [years] | 1051 |
| Mechanical data | | |
| Weight | [g] | 177 |
| Housing | | tubular |
| Mounting | | non-flush mountable |

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| | |
|--------------------|---|
| Dimensions [mm] | M18 x 1 / L = 119 |
| Thread designation | M18 x 1 |
| Material | housing: stainless steel (1.4571/316Ti); PBT; TPE-U |

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

| Accessories | |
|----------------|---------------------------|
| Items supplied | lock nuts: 2 |
| | impact protection housing |
| | Mounting clamp |

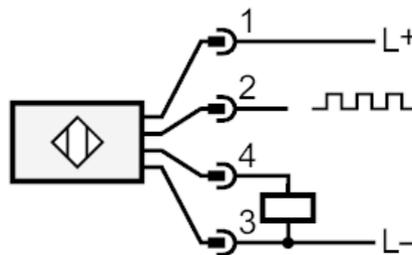
| Remarks | |
|---------------|--------|
| Pack quantity | 1 pcs. |

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



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