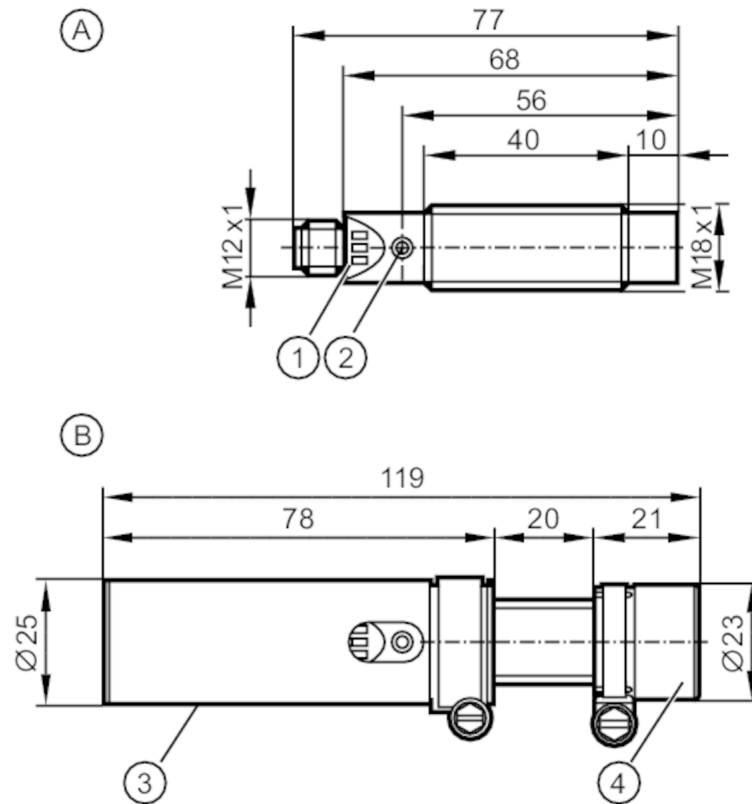


Compact evaluation unit for speed monitoring

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

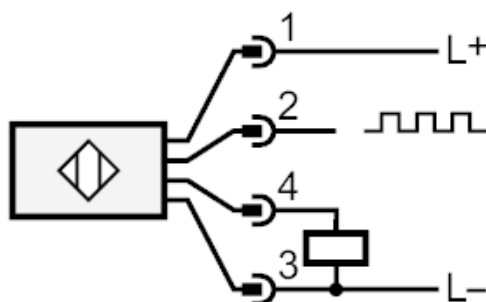
Items supplied	lock nuts: 2
	Impact protection housing
	Mounting clamps

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