

DI602A



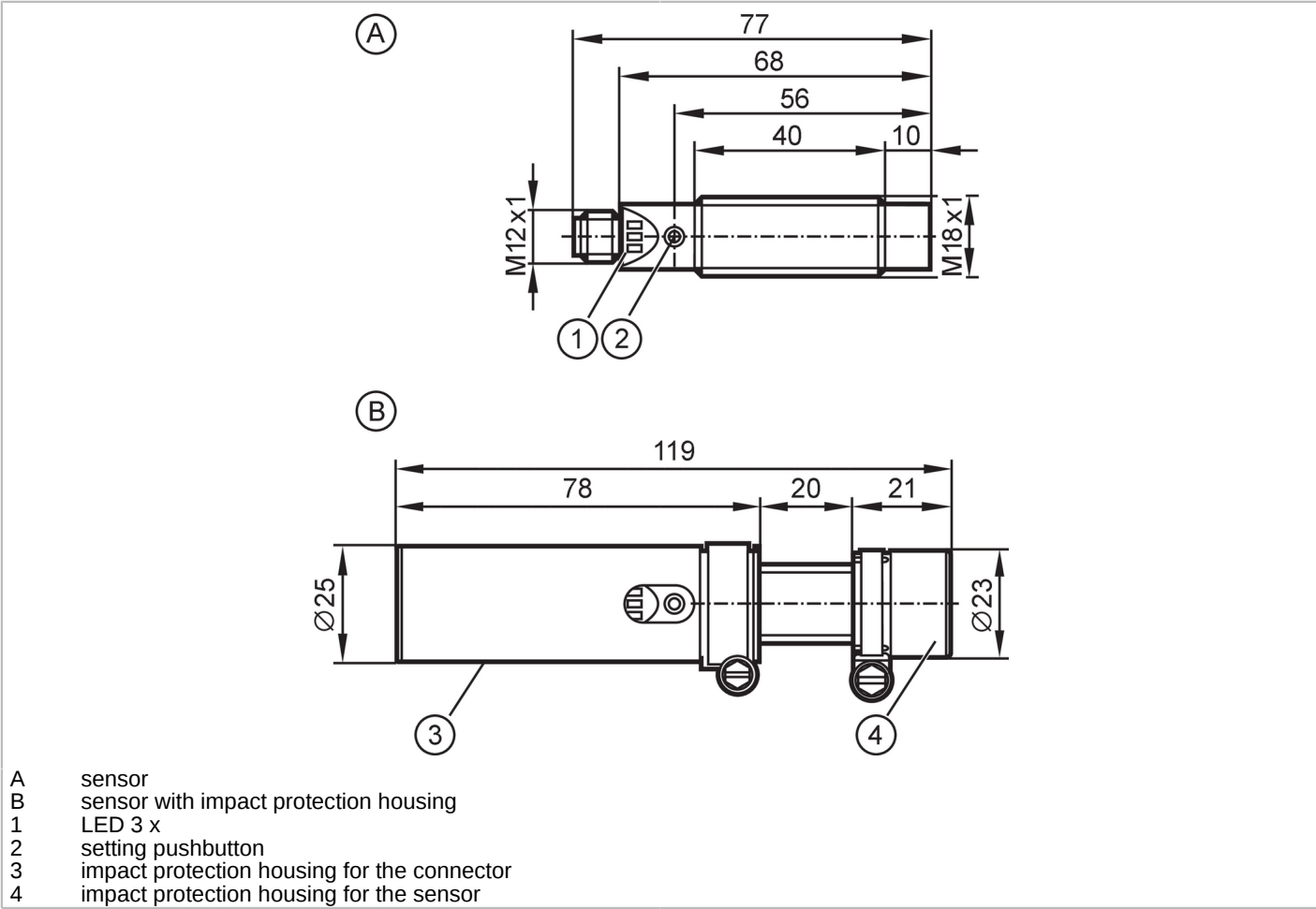
Compact evaluation unit for speed monitoring

DGA4012-WPKG/US/3D

phase-out article

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.



Product characteristics		
Electrical design		PNP
Output function		normally open / normally closed; (parameterisable)
Sensing range	[mm]	8
Housing		cylindrical
Dimensions	[mm]	M18 x 1 / L = 119
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

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Protection class	II
Reverse polarity protection	yes
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
Measuring principle	inductive
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
Housing	cylindrical
Mounting	non-flush mountable
Dimensions [mm]	M18 x 1 / L = 119

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Thread designation	M18 x 1
Materials	housing: stainless steel (316Ti/1.4571); PBT; TPE-U

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

Remarks

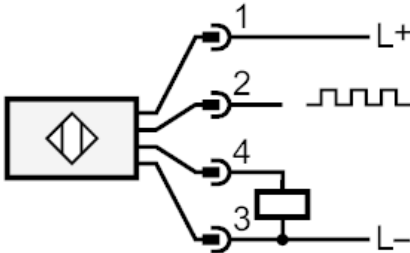
Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection



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