

DI6001



Compact evaluation unit for speed monitoring

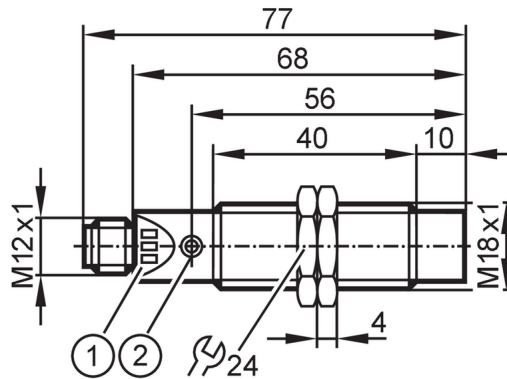
DGA4012-WPKG/US

Article no longer available - archive entry

Alternative articles: DI6004 or DI6005

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

Please do not use for new projects.



- 1 LED 3 x
- 2 setting pushbutton



Product characteristics

Electrical design	PNP
Output function	normally open / closed; (configurable)
Sensing range [mm]	12
Housing	Threaded type
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

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]	250; (Pulse output: 15)
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

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Monitoring range		
Sensing range	[mm]	12
Sensing range adjustable		no
Measuring/setting range		
Setting range	[Imp/min]	3...6000
Measuring principle		inductive
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.8 / 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...80
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	1031
UL approval	voltage supply	Class 2
Mechanical data		
Weight	[g]	67.5
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 68
Thread designation		M18 x 1
Material		threaded sleeve: stainless steel (1.4571/316Ti); sensing face: PBT
Tightening torque	[Nm]	35
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: 4, gold-plated		

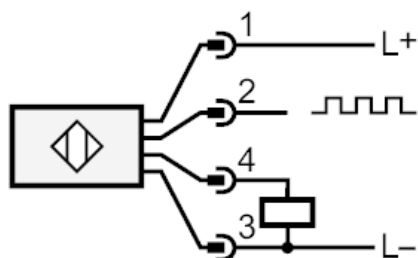
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Connection



- 2: Pulse output pulse sequence corresponds to damping frequency
- 4: Switching output adjustable