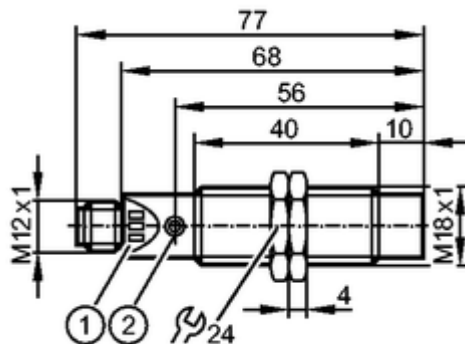


DI6001

DGA4012-WPKG/US

Evaluation systems, power supplies



- 1: 3 LED
2: setting pushbutton



Product characteristics

Compact speed monitor M18
DGA
M18 x 1
Switching output and pulse output
Inductive sensor
Sensing range 12 mm [nf]
non-flush mountable

Application

Application	Evaluation of rotating and linear movements for speed below the preset value, blockage
Switching function	output is switched during the start-up delay and if (f actual) is greater than (f preset) *
Electrical design	DC PNP
Switching output	normally open / closed programmable

Electrical data

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

Outputs

Transistor

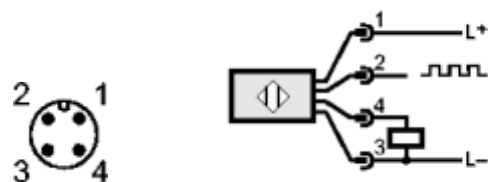
Current rating [mA]	250 / 15 ***)
Voltage drop [V]	< 2.5
Short-circuit protection	pulsed
Overload protection	yes

Range

Sensing range [mm]	12
Correction factors	mild steel = 1 / stainless steel approx. 0.8 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3

Measuring / setting range	
Setting range [pulses/min.]	3...6000
Adjustment of the switch point	Teach function
Hysteresis [% of Sp]	10
Start-up delay [s]	0...15
Reaction times	
Damping frequency (max.) [pulses/min]	18000
Environment	
Ambient temperature [°C]	-20...80
Protection	IP 67
Tests / approvals	
EMC	EN 60947-5-2
Safety classification	
MTTF [a]	1031
Mechanical data	
Mounting	non-flush mountable
Housing materials	stainless steel 316Ti / 1.4571; PBT
Weight [kg]	0.065
Displays / operating elements	
Operation LED	green
Input pulses LED	green
Output status indication LED	yellow
Electrical connection	
Connection	M12 connector; Gold-plated contacts

Wiring



- 2: pulse output (the pulse sequence corresponds to the damping frequency)
 4: switching output (adjustable)

Remarks	
Remarks	*) factory setting **) cULus - Class 2 source required ***) switching output / pulse output
Pack quantity [piece]	1

ifm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — GB — DI6001 — 13.01.2009