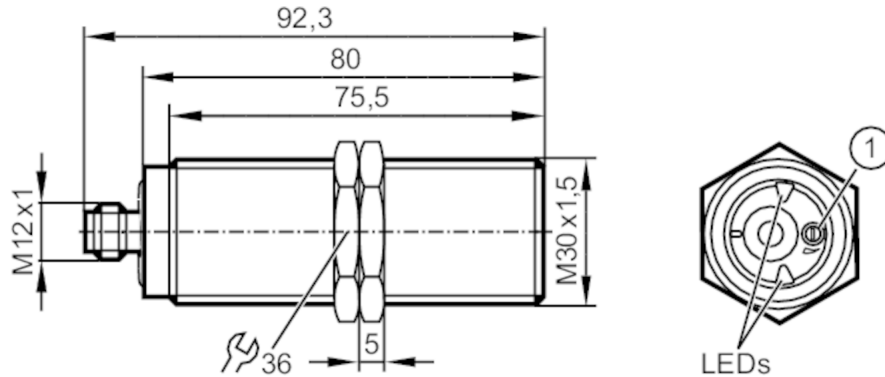


# DI524A



## Compact evaluation unit for speed monitoring

DIA3010-WRKG/IO/US/3D



1 potentiometer



### Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (parameterisable)
Sensing range [mm]	10
Communication interface	IO-Link
Dimensions [mm]	M30 x 1.5 / L = 92.3

### Application

Application	simple evaluation of rotating and linear movement with regard to underspeed; blocking
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### Electrical data

Nominal voltage DC [V]	10...36
Current consumption [mA]	< 22
Protection class	III
Reverse polarity protection	yes

### Outputs

Electrical design	PNP/NPN
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Short-time current rating of switching output [mA]	250
Short-circuit proof	yes
Overload protection	yes

### Detection zone

Sensing range [mm]	10
Sensing range adjustable	no
Operating distance [mm]	0...8.1

### Measuring/setting range



Setting range [Imp/min]	5...3600
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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...30	
Max. damping frequency [Imp/min]	18000	
Software / programming		
Adjustment of the switch point	Multiturn potentiometer or IO-Link	
Interfaces		
Communication interface	IO-Link	
Operating conditions		
Ambient temperature [°C]	-25...60	
Storage temperature [°C]	-25...60	
Protection	IP 65; IP 67	
Tests / approvals		
ATEX marking	 II 3D Ex tc IIIC T80°C Dc X	
EMC	EN 60947-5-2	
Shock resistance	DIN EN 60947-5-2	
Vibration resistance	DIN EN 60947-5-2	
MTTF [years]	656	
Mechanical data		
Weight [g]	268	
Mounting	flush mountable	
Dimensions [mm]	M30 x 1.5 / L = 92.3	
Thread designation	M30 x 1.5	
Materials	brass special coating; PA; stainless steel; TPE-U	
Displays / operating elements		
Display	switching status	1 x LED, green
	input signal	1 x LED, yellow
Accessories		
Accessories (supplied)	lock nuts: 2	
Electrical connection		
Connector: 1 x M12		
		

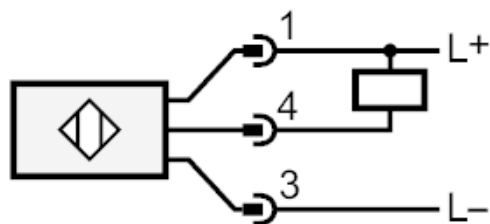
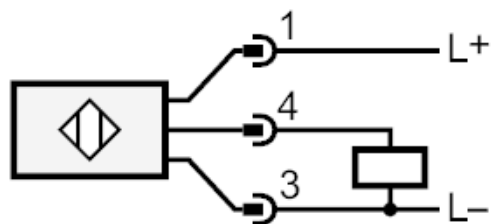
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## Compact evaluation unit for speed monitoring

DIA3010-WRKG/IO/US/3D

### Connection



4: OUT / IO-Link