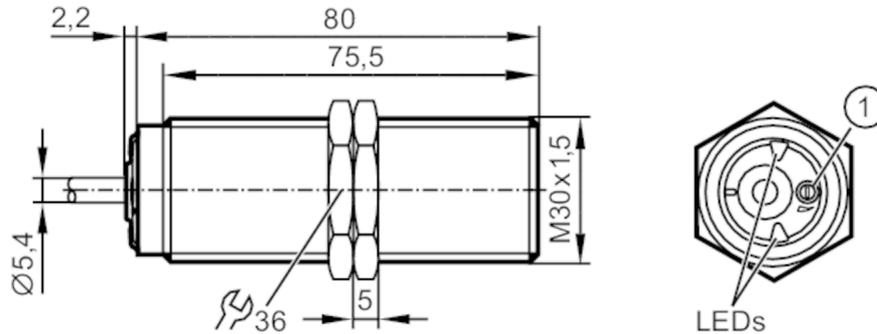


# DI523A



## Compact evaluation unit for speed monitoring

DIA3010-WRKG/IO/3D



1 potentiometer



### Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (parameterisable)
Sensing range [mm]	10
Communication interface	IO-Link
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 80

### Application

Application	simple evaluation of rotating and linear movement with regard to underspeed; blocking
-------------	---

### 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
Real sensing range $S_r$ [mm]	$10 \pm 10 \%$
Operating distance [mm]	0...8.1

### Measuring/setting range

Setting range [Imp/min]	5...3600
-------------------------	----------

# DI523A



## Compact evaluation unit for speed monitoring

DIA3010-WRKG/IO/3D

Measuring principle	inductive	
<b>Accuracy / deviations</b>		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis [% of Sr]	10	
<b>Response times</b>		
Start-up delay [s]	0...30	
Max. damping frequency [Imp/min]	18000	
<b>Software / programming</b>		
Adjustment of the switch point	Multiturn potentiometer or IO-Link	
<b>Interfaces</b>		
Communication interface	IO-Link	
<b>Operating conditions</b>		
Ambient temperature [°C]	-20...60	
Storage temperature [°C]	-25...60	
Protection	IP 65; IP 67	
<b>Tests / approvals</b>		
Approval	IECEX BVS 17.0094X	
ATEX marking	 II 3D Ex tc IIIC T80°C Dc X	
EMC	EN 60947-5-2	
MTTF [years]	656	
<b>Mechanical data</b>		
Weight [g]	322	
Housing	threaded type	
Mounting	flush mountable	
Dimensions [mm]	M30 x 1.5 / L = 80	
Thread designation	M30 x 1.5	
Materials	brass special coating; PA; TPE-U	
<b>Displays / operating elements</b>		
Display	switching status	1 x LED, green
	input signal	1 x LED, yellow
<b>Accessories</b>		
Items supplied	lock nuts: 2	
<b>Remarks</b>		
Remarks	Recommendation Check the safe functioning of the unit after a short circuit.	

# DI523A



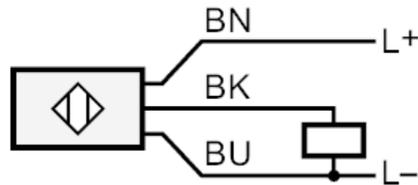
## Compact evaluation unit for speed monitoring

DIA3010-WRKG/IO/3D

### Electrical connection

Cable: 2 m, PUR; 3 x 0.5 mm<sup>2</sup>

### Connection



BK: OUT / IO-Link  
Core colours :  
BK = black  
BN = brown  
BU = blue