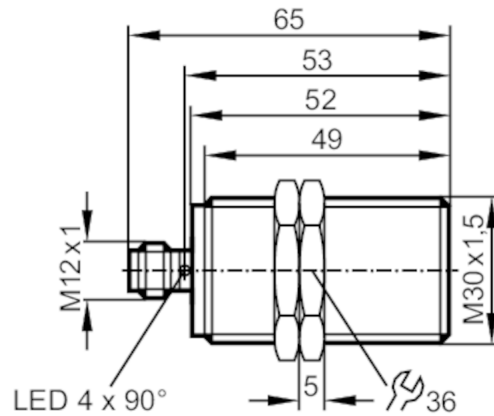




Speed monitor

DIK3012BWRKG/IO/US



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...30
Current consumption	[mA]	< 10
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
Short-time current rating of switching output	[mA]	100; ((20 ms / 0,5 Hz))
Short-circuit proof		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	12
Sensing range adjustable		no
Operating distance	[mm]	0...9.72

Measuring/setting range

Setting range	[Imp/min]	5...14400
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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; (In steps of: 100 ms; Default: 15 s)
Max. damping frequency	[Imp/min]	18000

Interfaces

Communication interface		IO-Link
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Speed monitor

DIK3012BWRKG/IO/US

Operating conditions		
Ambient temperature	[°C]	-40...85
Protection		IP 66; IP 67; IP 68; IP 69K
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
	EN 60947-5-2	
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Vibration resistance	DIN EN 60947-5-2	20 g (10...3000 Hz)
		50 sweep cycles per frequency; 1 octave per minute in 3 axes
MTTF	[years]	664
UL approval	UL Approval no.	A008
Mechanical data		
Weight	[g]	121.6
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 65
Thread designation		M30 x 1.5
Materials		brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated
Displays / operating elements		
Display	SIO mode	
	output stage supplied with current	4 x LED, yellow
	IO-Link mode	
	target in measuring range	4 x LED, yellow
	target outside measuring range	4 x LED, yellow flashing light
Accessories		
Accessories (supplied)		lock nuts: 2
Electrical connection		
Connector: 1 x M12		

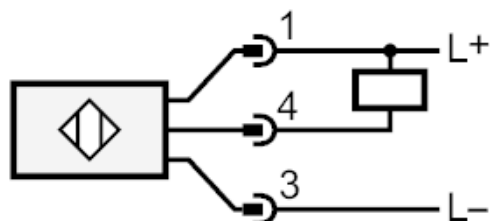
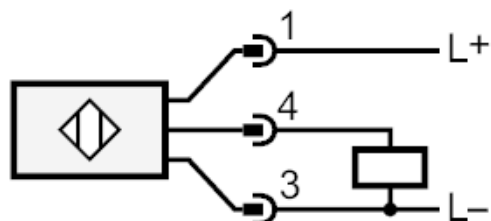
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Speed monitor

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Connection



4: OUT / IO-Link