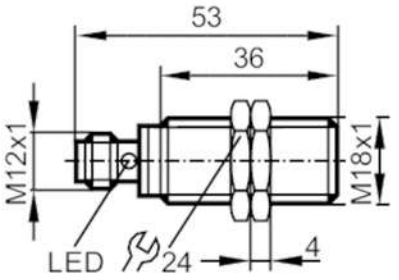
IG0402

Inductive sensor

IGB2008BARKA/BS-400B



Product characteristics		
Output function		normally open
Sensing range	[mm]	8
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 53
Application		
Special feature		Increased sensing range
Electrical data		
Operating voltage	[V]	20...140 AC/DC
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open
Max. voltage drop switching output DC	[V]	6
Max. voltage drop switching output AC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	1
Permanent current rating of switching output AC	[mA]	200
Permanent current rating of switching output DC	[mA]	200
Short-time current rating of switching output	[mA]	1200; (20ms / 0,5Hz; for UL application: î: 0,9 A (20 ms / 0,5 Hz))
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	8
Operating distance	[mm]	0...6.48
Increased sensing range		yes

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	3...15	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
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 61000-4-5 Surge	1 kV line to line, Ri: 2 Ohm
		EN 61000-4-6 HF conducted	10 V
		EN 55011 emission	class B
MTTF	[years]	400	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		power supply	Hazardous voltage
		File number UL	E174191
Mechanical data			
Weight	[g]	50.5	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M18 x 1 / L = 53	
Thread designation		M18 x 1	
Materials		brass white bronze coated; sensing face: PBT	
Displays / operating elements			
Display		switching status	1 x LED, red
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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Electrical connection - plug

Connector: 1 x M12; coding: B



