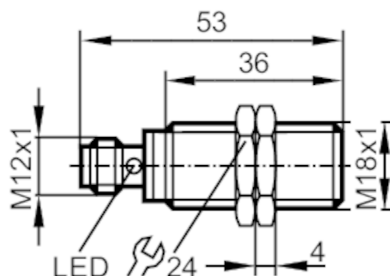


IG0402



Inductive sensor

IGB2008BARKA/BS-400B



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: $\hat{I}$: 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

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

IG0402



Inductive sensor

IGB2008BARKA/BS-400B

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
	voltage supply	Unlimited Voltage
	File number UL	E174191
Mechanical data		
Weight	[g]	50.1
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		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12		
		

IG0402

Inductive sensor

IGB2008BARKA/BS-400B

