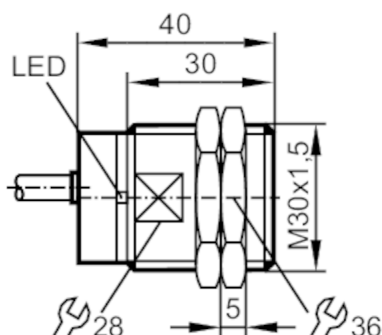


Inductive full-metal sensor

IIB2012BARKG/AM/SC/3,0M/2LED



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	12
Housing	threaded type
Dimensions [mm]	M30 x 1.5 / L = 40

Application

Special feature	Increased sensing range; Full-metal housing; Optical setting aid; anti-spatter
Application	Use in welding applications

Electrical data

Operating voltage [V]	10...36 DC
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Minimum load current [mA]	2
Max. leakage current [mA]	0.6
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	25
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	12
Operating distance [mm]	0...9.7
Increased sensing range	yes



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Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminium: 0.5 / copper: 0.1	
Hysteresis	[% of Sr]	1...20
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 61000-4-6 HF conducted	10 V
	EN 55011 emission	class B
Impact resistance		1 J
MTTF	[years]	1389
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	223.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 40
Thread designation		M30 x 1.5
Materials	housing: stainless steel (1.4404 / 316L) anti-spatter; sensing face: stainless steel (1.4404 / 316L) anti-spatter; lock nuts: stainless steel (1.4404 / 316L) anti-spatter	
Full-metal housing		yes
Displays / operating elements		
Display	switching status	1 x LED, green
	setting aid	1 x LED, red
Optical setting aid		yes
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

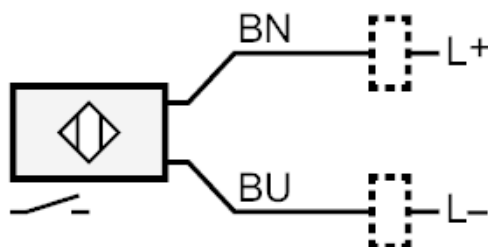
Inductive full-metal sensor

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Electrical connection

Cable: 3 m, PVC; 2 x 0.5 mm²

Connection



Core colours :

BN = brown

BU = blue

Diagrams and graphs

Installation

