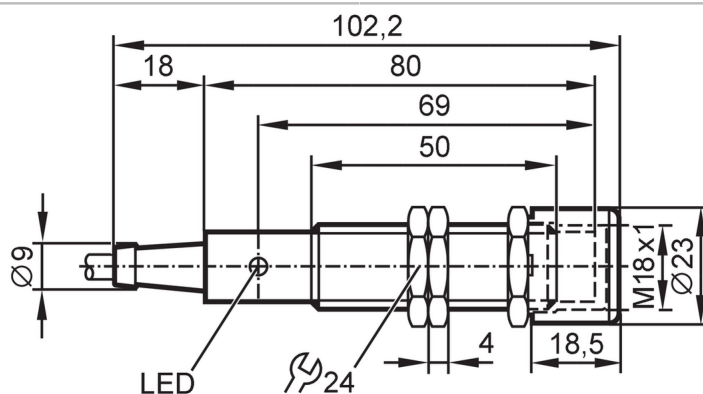


IG513A



Inductive sensor

IGA3008-BPKG/3D



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	8
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 80

Application

Application	For applications in hazardous areas
Installation	use in hazardous areas only with installed protective cover

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	15
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	150
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	8
Real sensing range S_r [mm]	$8 \pm 10\%$
Operating distance [mm]	0...6.48

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
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IG513A



Inductive sensor

IGA3008-BPKG/3D

Hysteresis	[% of Sr]	1...20
Switch-point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-20...60
Protection		IP 67

Tests / approvals

ATEX marking	 II 3D Ex tc IIIC T80°C Dc X	
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
	IEC 60255-5	1 kV line to line, Ri: 500 Ohm
	EN 55011	class B
MTTF	[years]	1853

Mechanical data

Weight	[g]	193.5
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 80
Thread designation		M18 x 1
Material		housing: brass white bronze coated; sensing face: PBT orange; Protective cover: PA; end cap: TPU (urethane); lock nuts: brass white bronze coated

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 3 x M18	
	Protective cover: 1 x (M18 / Ø 23 mm)	

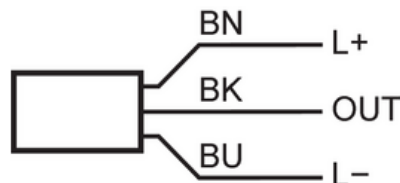
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PUR; 3 x 0.50 mm²

Connection



	Core colors :
BK =	black
BN =	brown
BU =	blue

BN	L+	
BK	OUT	DO (NO)
BU	L-	
DO: digital output; NO: normally open		