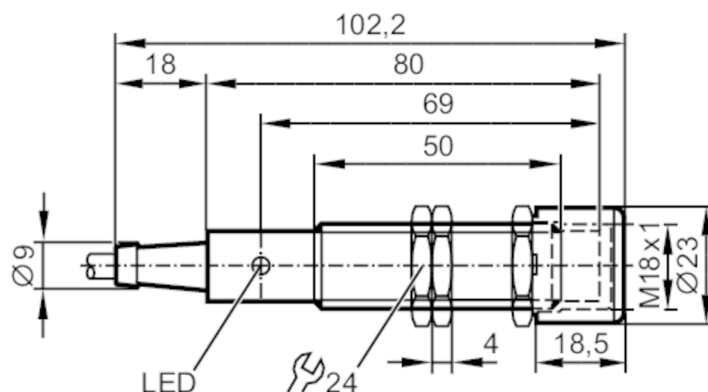


IG515A

Inductive sensor

IGA2008-FRKG/3D



Product characteristics

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

Application

Installation	use in hazardous areas only with installed protective cover
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Electrical data

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

Outputs

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	0.5
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 Sr [mm]	8 ± 10 %
Operating distance [mm]	0...6.48

IG515A



Inductive sensor

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2	
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	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
		IEC 60255-5	1 kV line to line, Ri: 500 Ohm
		EN 55011 emission	class B
MTTF	[years]	1674	
Mechanical data			
Weight	[g]	179	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 80	
Thread designation		M18 x 1	
Material		brass white bronze coated; sensing face: PBT; lock nuts: brass white bronze coated; Protective cover: PA	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 3 x M18	
		Protective cover: 1 x (M18 / Ø 23 mm)	
Remarks			
Pack quantity		1 pcs.	

IG515A



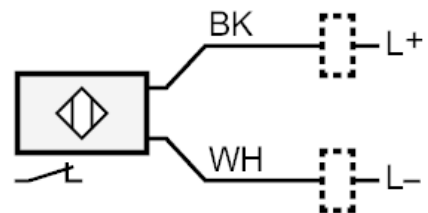
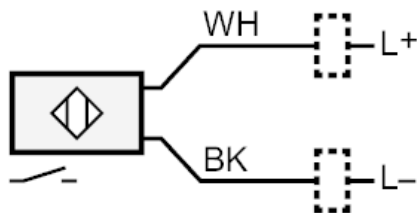
Inductive sensor

IGA2008-FRKG/3D

Electrical connection

Cable: 2 m, PUR; 2 x 0.5 mm²

Connection



BK =
WH =

Core colors :
black
white