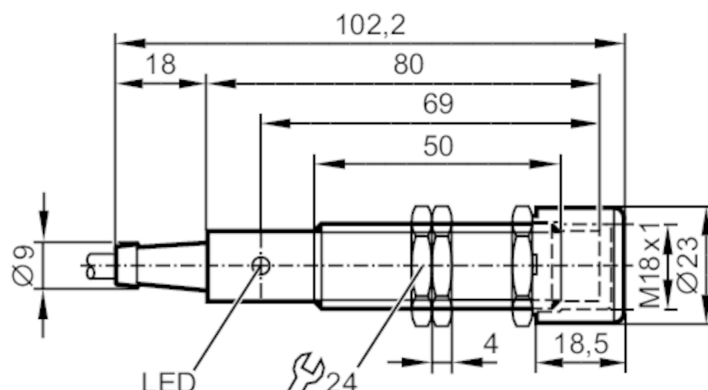


IG515A



Inductive sensor

IGA2008-FRKG/3D



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally 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 / normally 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	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	8
Real sensing range S_r [mm]	$8 \pm 10 \%$
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 / aluminium: 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	
Materials	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		
Accessories (supplied)	lock nuts: 3	
	Protective cover: 1	
Remarks		
Pack quantity	1 pcs.	

IG515A



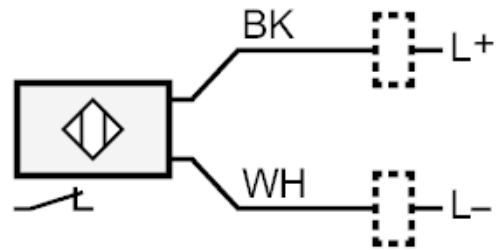
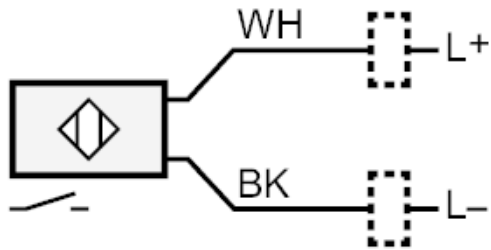
Inductive sensor

IGA2008-FRKG/3D

Electrical connection

Cable: 2 m, PUR; 2 x 0.5 mm²

Connection



Core colours :

BK = black
WH = white