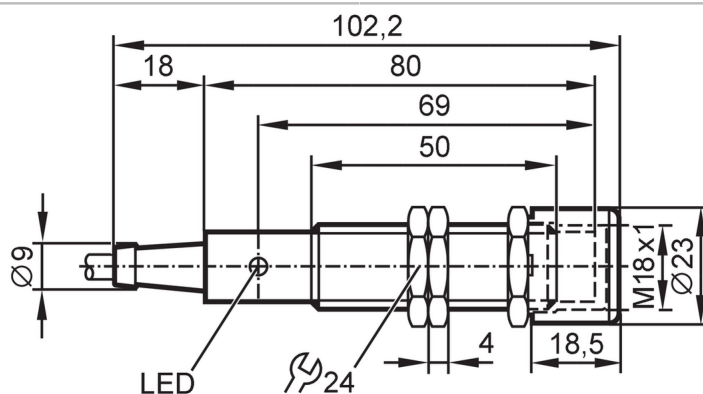


IG515A



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

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

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



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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	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]	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	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
Accessories		
Items supplied	lock nuts: 3 x M18	
	Protective cover: 1 x (M18 / Ø 23 mm)	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 2 m, PUR; 2 x 0.5 mm²		
Connection		
WH L+ / L- BK L- / L+		
BK =	Core colors : black	
WH =	white	

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Electrical connection - plug

PNP / NO

WH	L+	
BK	L-	DO (NO) (PNP)

PNP / NC

WH	L-	DO (NC) (PNP)
BK	L+	

NPN / NO

WH	L+	DO (NO) (NPN)
BK	L-	

NPN / NC

WH	L-	
BK	L+	DO (NC) (NPN)

DO: digital output; NC: normally closed; NO: normally open