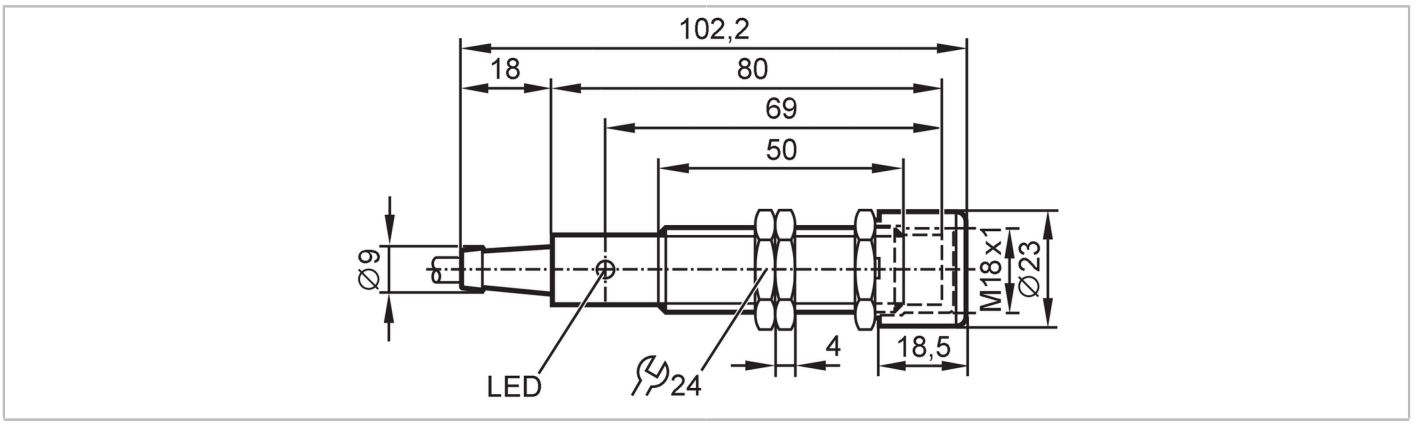
IG515A

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		
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 / 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 Sr	[mm]	8 ± 10 %
Operating distance	[mm]	0...6.48

IG515A

Inductive sensor

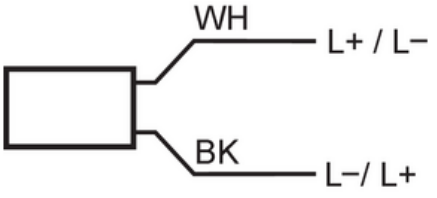
IGA2008-FRKG/3D

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	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	
Materials		housing: brass white bronze coated; sensing face: PBT orange; Protective cover: PA; end cap: TPU; 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



Core colours :
BK = black
WH = white

IG515A

Inductive sensor

IGA2008-FRKG/3D

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