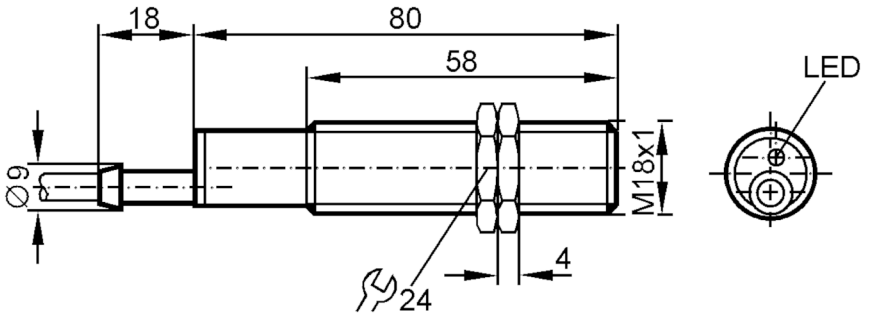
IG5181

Inductive sensor

IGA2005SFROG/V4A/20m

Article no longer available - archive entry



CE

Product characteristics		
Electrical design		PNP; (self-monitoring system)
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	5
Housing		threaded type
Dimensions	[mm]	M18 x 1
Electrical data		
Connection to switching amplifiers		yes
Switching amplifiers		connection to F400 control monitor or as 2-wire DC DNP
Operating voltage	[V]	10...36 DC
Reverse polarity protection		no
Outputs		
Electrical design		PNP; (self-monitoring system)
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	6.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	1.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	80
Short-circuit protection		no

IG5181

Inductive sensor

IGA2005SFROG/V4A/20m

Overload protection		no	
Detection zone			
Sensing range	[mm]	5	
Real sensing range Sr	[mm]	5 ± 10 %	
Operating distance	[mm]	0...4.05	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		IEC 801-2	level 4
		IEC 801-3	level 3
		IEC 801-4	level 4
		IEC 801-5	level 2
Mechanical data			
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M18 x 1	
Thread designation		M18 x 1	
Materials		stainless steel (316Ti/1.4571); PBT	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

IG5181

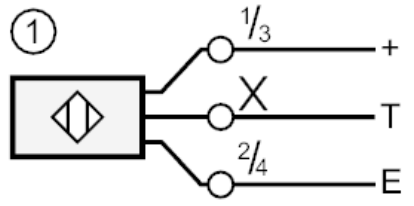
Inductive sensor

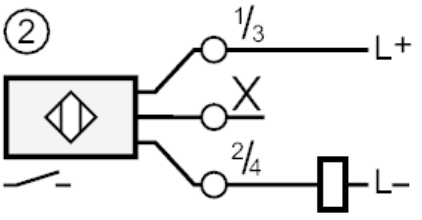
IGA2005SFROG/V4A/20m

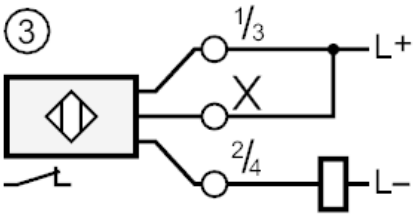
Electrical connection

Cable: 20 m, PVC; 3 x 0.5 mm²

Connection







1 =	connection to F400
2 =	Connection 2-wire DC
3 =	Connection 2-wire DC
	Core colours :
BK =	black
BN =	brown
BU =	blue