IG5180

Inductive sensor

IGA2005SFROG/V4A/10m

Article no longer available - archive entry

CE
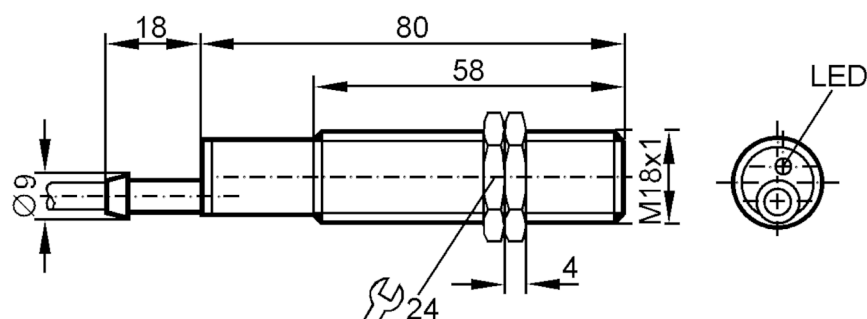
Product characteristics

Electrical design		PNP; (Self-monitoring system)
Output function		normally open / closed; (selectable)
Sensing range	[mm]	5
Housing		Threaded type
Dimensions	[mm]	M18 x 1

Electrical data

Connection at circuit amplifier		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 / 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
Overload protection		no

IG5180

Inductive sensor

Monitoring range		
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 / aluminum: 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
Material		stainless steel (1.4571/316Ti); PBT
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

IG5180

Inductive sensor

IGA2005SFROG/V4A/10m

Electrical connection

Cable: 10 m, PVC; 3 x 0.5 mm²

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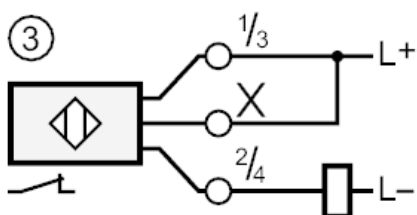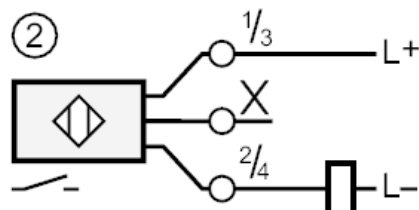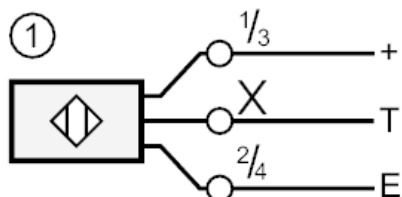
1 =	connection to F400
2 =	Connection 2-wire DC
3 =	Connection 2-wire DC
	Core colors :
BK =	black
BN =	brown
BU =	blue