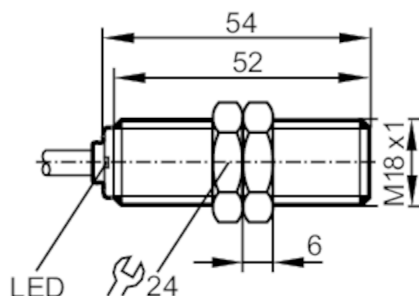


Inductive sensor

IGC2008SFRKG/10M



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 = 54

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Inputs

Clock input	f _{max} = 1000 Hz; t _v < 0.5 ms; I _{max} < 0.8 mA (36 V)
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Outputs

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	125
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 ± 10 %
Operating distance [mm]	0...6.48

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S _r]	1...15

IG6213



Inductive sensor

IGC2008SFRKG/10M

Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
Mechanical data		
Weight	[g]	319.3
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 54
Thread designation		M18 x 1
Materials		PBT; TPE
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Remarks		minimum cable bending radius
		fixed installation: 5 x external diameter
		flexing installation: 15 x external diameter
Pack quantity		1 pcs.

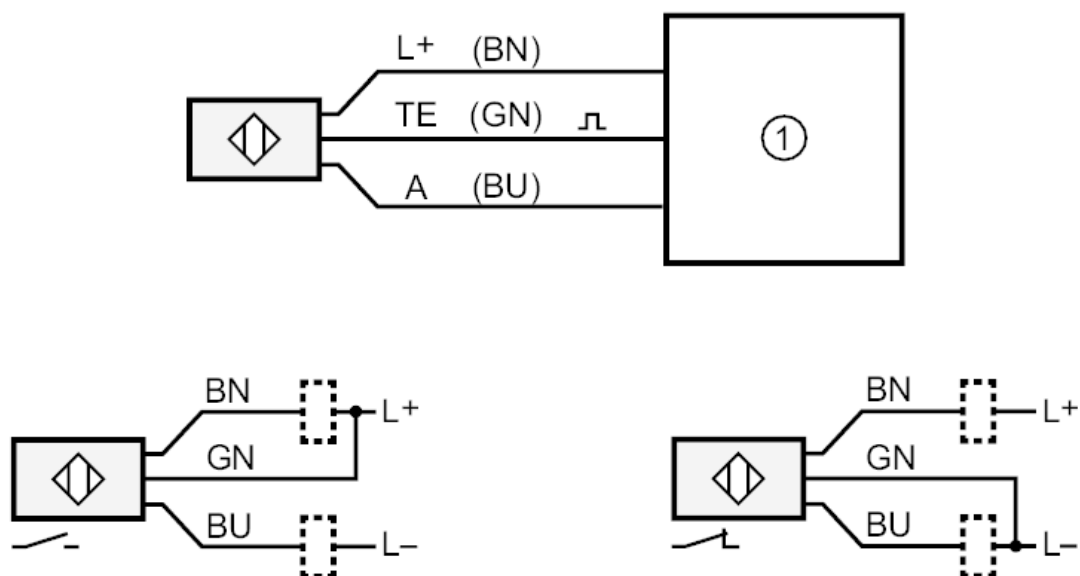
Inductive sensor

IGC2008SFRKG/10M

Electrical connection

Cable: 10 m, PVC; 3 x 0.5 mm²

Connection



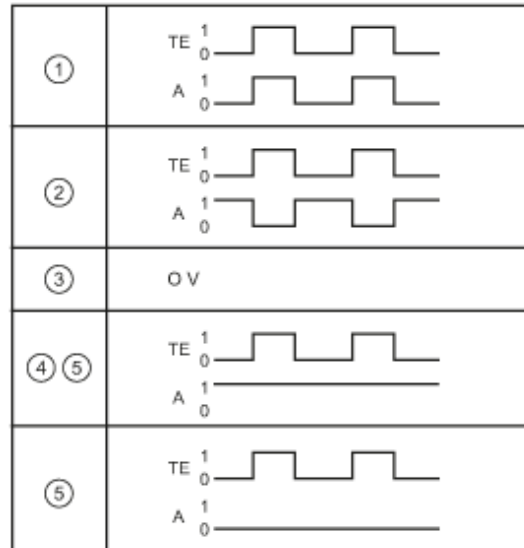
1: control monitor or PLC
A: Output
TE: Clock input
normally closed when TE = L- or open; normally open when TE = L+
Core colours :
BN = brown
BU = blue
GN = green

Inductive sensor

IGC2008SFRKG/10M

Diagrams and graphs

Clock input



1: sensor undamped

2: sensor damped

3: wire break

4: short circuit

5: faulty output stage

A: Output

TE: Clock input