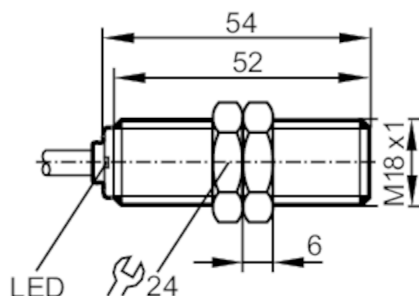




Inductive sensor

IGC2008SFRKG/3M

Article no longer available - archive entry



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 = 54

Electrical data

Operating voltage [V]	10...36 DC; (cULus - Class 2 source required)
Current consumption [mA]	15; (24 V)
Protection class	II
Reverse polarity protection	yes

Inputs

Clock input	fmax = 1000 Hz; tv < 0.5 ms; Imax < 0.8 mA (36 V)
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Outputs

Electrical design	PNP/NPN
Output function	normally open / 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	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

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
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IG6075



Inductive sensor

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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	EN 60947-5-2	
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight	[g]	168.6
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 54
Thread designation		M18 x 1
Material		PBT; TPE

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Remarks	minimum cable bending radius
	fixed installation: 5 x external diameter
	flexing installation: 15 x external diameter
Pack quantity	1 pcs.

IG6075



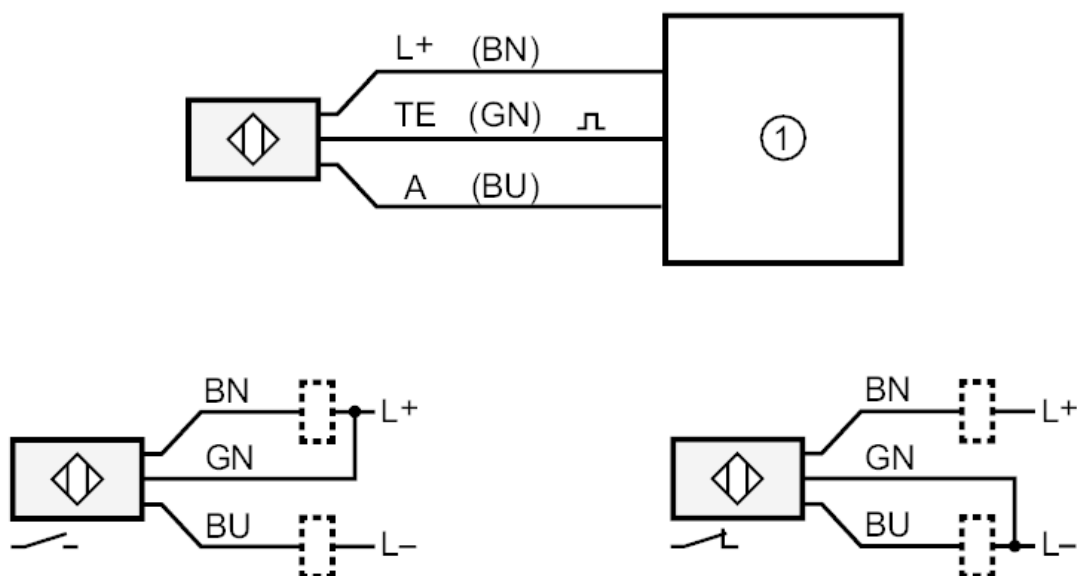
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Electrical connection

Cable: 3 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 colors :
BN = brown
BU = blue
GN = green

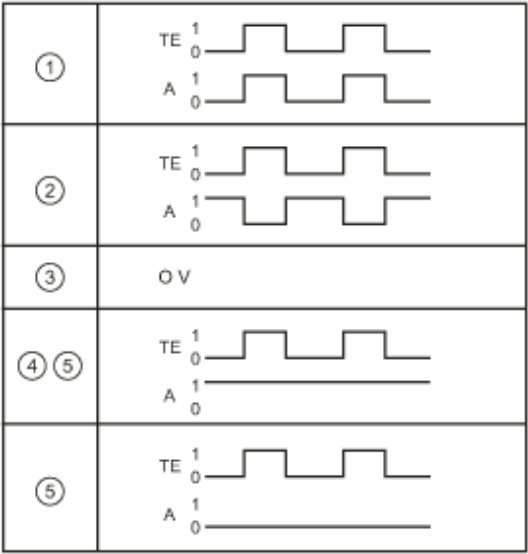


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Diagrams and graphs

Clock input



1: sensor undamped

2: sensor damped

3: wire break

4: short circuit

5: faulty output stage

A: Output

TE: Clock input