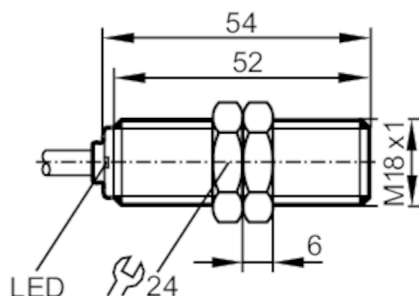




Inductive sensor

IGC2008SFRKG/3M

Article no longer available - archive entry



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; ("supply class 2" to cULus)
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 / 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 Sr [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
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IG6075



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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
	power 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
Materials		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.



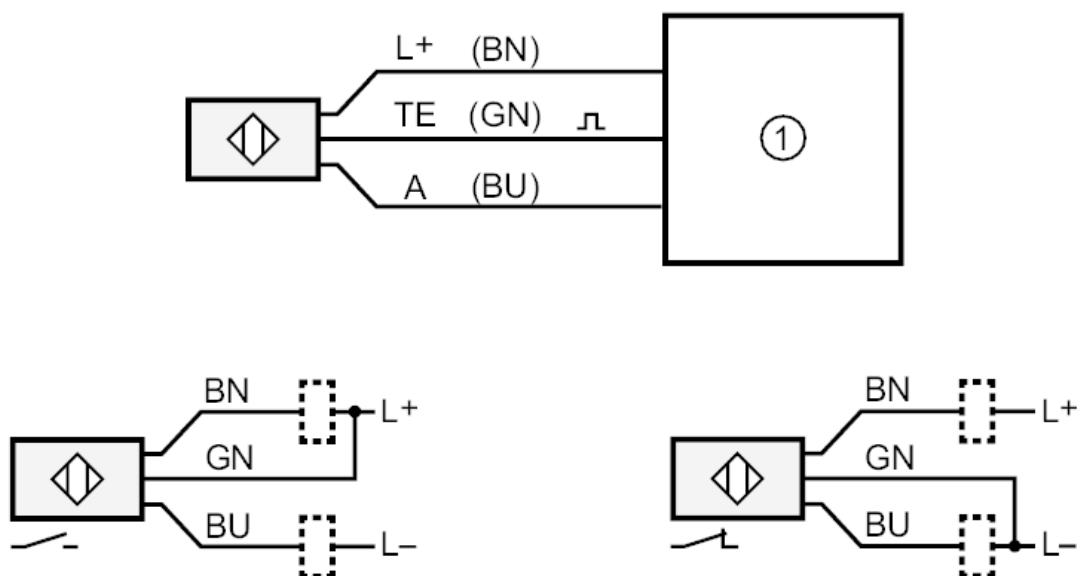
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Electrical connection

Cable: 3 m, PVC; 3 x 0.5 mm²

Connection



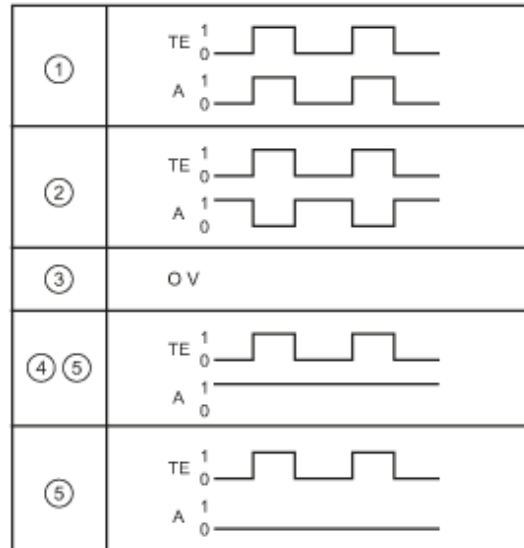
1: control monitor or PLC
A: Output
TE: Clock input
normally closed when TE = L- or open; normally open when TE = L+
Core colours :
BN = brown
BU = blue
GN = green

Inductive sensor

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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