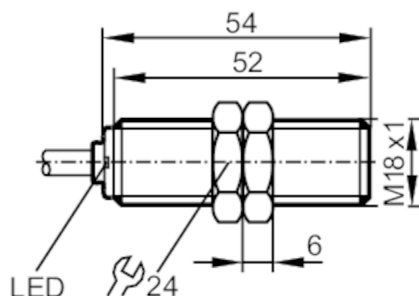


IG6075



Inductive sensor

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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
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

IG6075



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IGC2008SFRKG/3M

Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	1847
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	
Materials	PBT; TPE	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (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.	

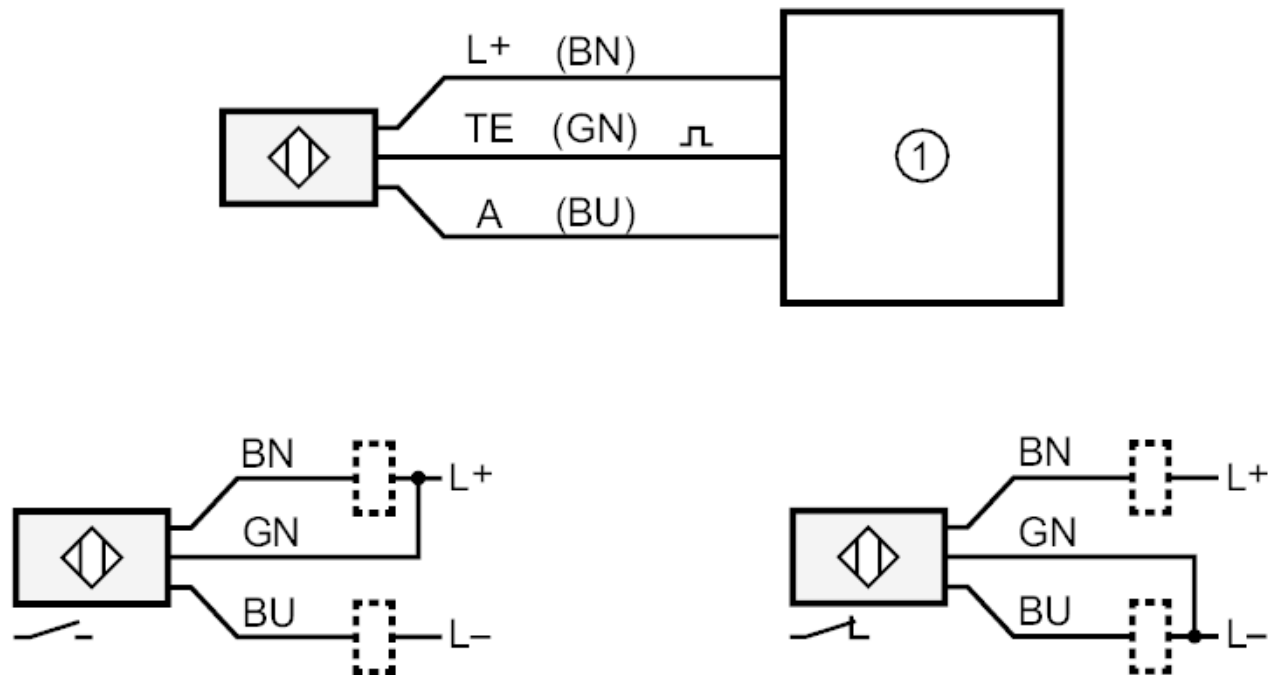
Inductive sensor

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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

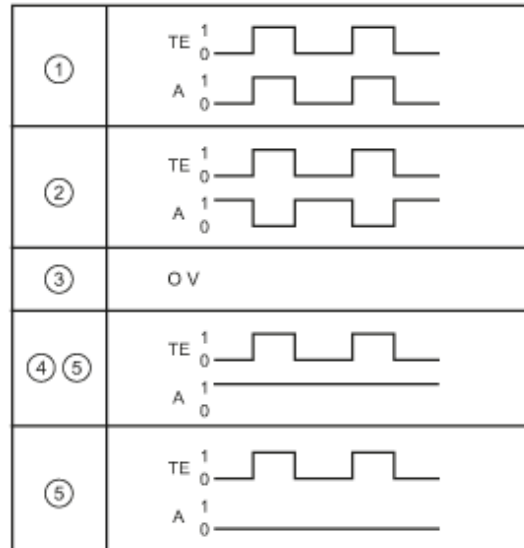


Inductive sensor

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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