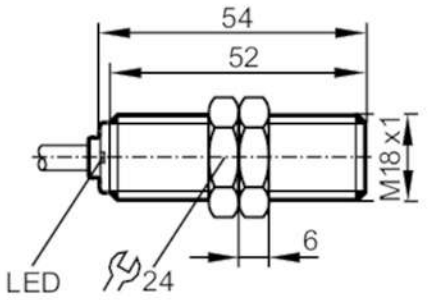
IG6213

Inductive sensor

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

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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.	

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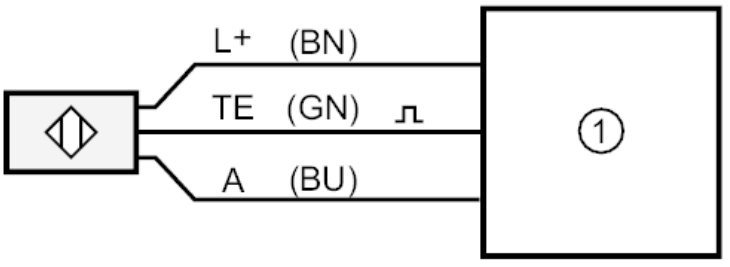
Inductive sensor

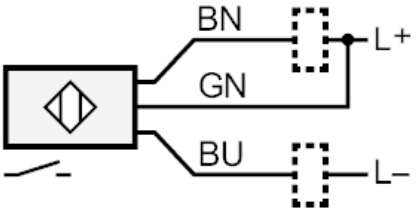
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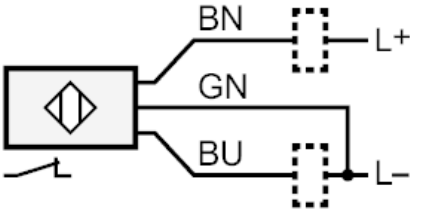
Electrical connection

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

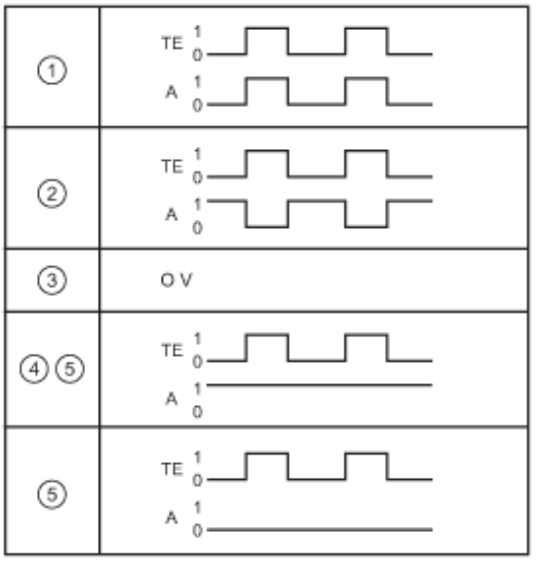
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Diagrams and graphs

Clock input



1: sensor undamped
2: sensor damped
3: wire break
4: short circuit
5: faulty output stage
A: Output
TE: Clock input