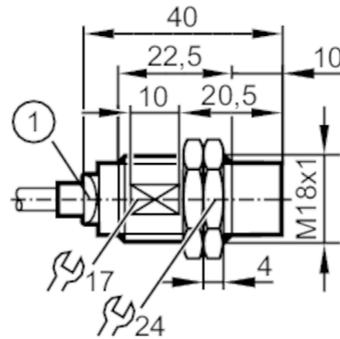


# IGS703



## Inductive sensor

IGB3012-ANKG/2M/PUR



1 LED yellow



### Product characteristics

Electrical design	NPN
Output function	normally open
Sensing range [mm]	12
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 40

### Application

Special feature	Increased sensing range
Application	Industrial applications / factory automation

### Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10
Protection class	III
Reverse polarity protection	yes

### Outputs

Electrical design	NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Overload protection	yes

### Detection zone

Sensing range [mm]	12
Real sensing range $S_r$ [mm]	$12 \pm 10 \%$
Operating distance [mm]	0...9.72
Increased sensing range	yes

### Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
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Hysteresis	[% of Sr]	3...15
Switch point drift	[% of Sr]	-10...10

### Operating conditions

Ambient temperature	[°C]	-40...85
Protection		IP 65; IP 66; IP 67; IP 68; IP 69K

### Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance	EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature change	EN 60068-2-14 Na	TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
Salt spray test	EN 60068-2-52 Kb	severity level 5 (4 test cycles)
MTTF	[years]	819
Embedded software included		yes
UL approval	Ta	-25...75 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL approval no.	A002
	File number UL	E174191

### Mechanical data

Weight	[g]	87.28
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 40
Thread designation		M18 x 1
Materials		brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated
Tightening torque	[Nm]	see operating instructions

### Displays / operating elements

Display	switching status	1 x LED, yellow
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### Accessories

Items supplied		lock nuts: 2 Tooth lock washer: 1, stainless steel
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### Remarks

Pack quantity		1 pcs.
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# IGS703



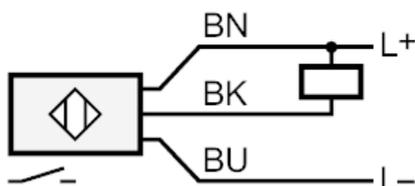
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### Electrical connection

Cable: 2 m, PUR,  $\varnothing$  4 mm; burning behaviour to ECE R118 rev. 2; 3 x 0.34 mm<sup>2</sup>

### Connection



Core colours :  
BK = black  
BN = brown  
BU = blue