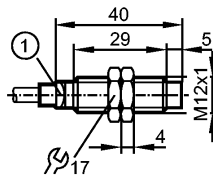


IFS259

IFB3007-ANKG/2M/PUR

Inductive sensors



1: LED (yellow)


Product characteristics

Inductive sensor

Metal thread M12 x 1

Cable

Increased sensing range

Sensing range 7 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC NPN
Operating voltage [V]	10...30 DC; UL - Class 2 source required
Current consumption [mA]	< 10
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	700

Monitoring range

Sensing range [mm]	7
Real sensing range (Sr) [mm]	7 ± 10 %
Operating distance [mm]	0...5.67

Accuracy / deviations

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

Environment

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	20 g (10...3000 Hz) / 50 cycles per frequency, 1 octave per minute in EN 60068-2-6 Fc

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Inductive sensors

		each of 3 mutually perpendicular axes
Shock resistance	EN 60068-2-27 Ea	100 g (11 ms half sine; 3 shocks in each direction along the three coordinate axes)
Continuous shock resistance	EN 60068-2-29 Eb	40 g (6 ms; 4000 shocks in each direction along the three coordinate axes)
Fast temperature changes	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]		837
UL approval number		A002

Mechanical data

Mounting	non-flush mountable
Housing materials	brass white bronze coated; active face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated
Weight [kg]	0.072

Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

Connection	PUR cable / 2 m; 3 x 0.34 mm²; Brennverhalten gemäß ECE R118 Rev.2
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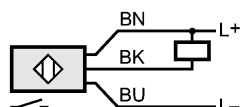
Wiring

Core colors

BK black

BN brown

BU blue


Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity	[piece]	1
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