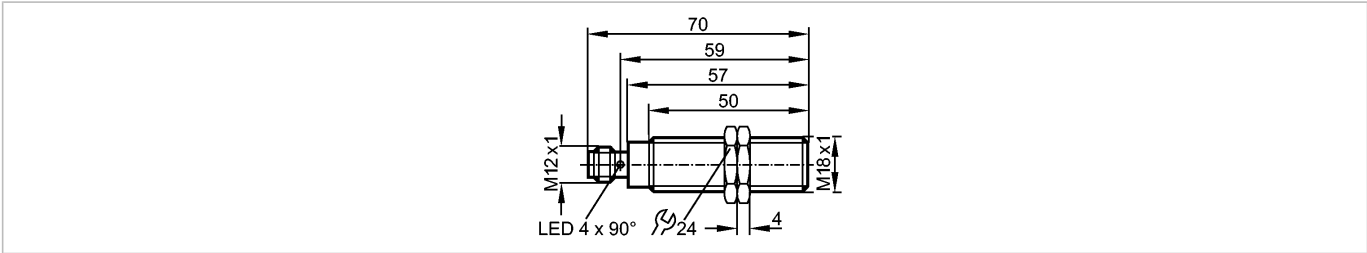


IGT247

IGK3005-BPKG/AM/US-104-DPS

Inductive sensors



Product characteristics

Inductive sensor
Metal thread M18 x 1
Quick disconnect
Full metal housing
gold-plated contacts
Sensing range 5 mm; [f] flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
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 (non-latching)
Overload protection	yes
Switching frequency [Hz]	100

Monitoring range

Sensing range [mm]	5
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.6 / aluminium approx. 0.5 / copper approx. 0.3
Hysteresis [% of Sr]	1...20

Environment

Pressure rating [bar]	100; sensing face
Ambient temperature [°C]	0...100
Protection	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 (Emission): class B
Impact resistance	DIN EN 60068-2-75 Ehc: 1 J
MTTF [Years]	1606

IGT247

IGK3005-BPKG/AM/US-104-DPS

Inductive sensors

Mechanical data

Mounting	flush mountable
Housing materials	housing: stainless steel 316L / 1.4404; active face: stainless steel 316L / 1.4404; lock nuts: stainless steel 316L / 1.4404
Weight [kg]	0.057

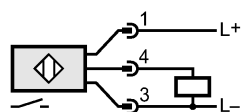
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
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Electrical connection

Connection	M12 connector; gold-plated contacts
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Wiring



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity	[piece]	1
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