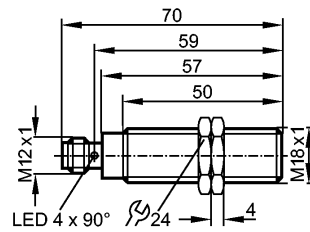


IG5595

Inductive sensors



Made in Germany



Product characteristics

Inductive sensor
Metal thread M18 x 1
Connector
gold-plated contacts
Sensing range 5 mm [f]
flush mountable

Electrical data

Electrical design	DC PNP/NPN
Operating voltage [V]	10...55 DC *)
Current consumption [mA]	< 10
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open / closed programmable
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.5
Current rating [mA]	400
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	700

Range

Sensing range [mm]	5
Real sensing range (Sr) [mm]	5 ± 10 %
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis [% of Sr]	1...20
Switch-point drift [% of Sr]	-10...10

Environment

Ambient temperature [°C]	-25...70
Protection	IP 67

Tests / approvals

EMC	EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated: 10 V/m (80...1000 MHz)
	EN 61000-4-4 Burst: 2 kV
	EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)
	EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz)

IG5595

Inductive sensors

	EN 55011:	class B
MTTF [Years]		1778

Mechanical data

Mounting	flush mountable
Housing materials	brass white bronze coated; active face: PBT
Weight [kg]	0.055

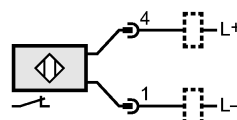
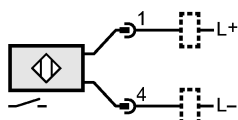
Displays / operating elements

Output status indication LED	yellow (4 x 90°)
------------------------------	------------------

Electrical connection

Connection	M12 connector; gold-plated contacts
------------	-------------------------------------

Wiring



Accessories

Accessories (included)	2 lock nuts
------------------------	-------------

Remarks

Remarks	*) operating voltage "supply class 2" to cULus.
---------	---