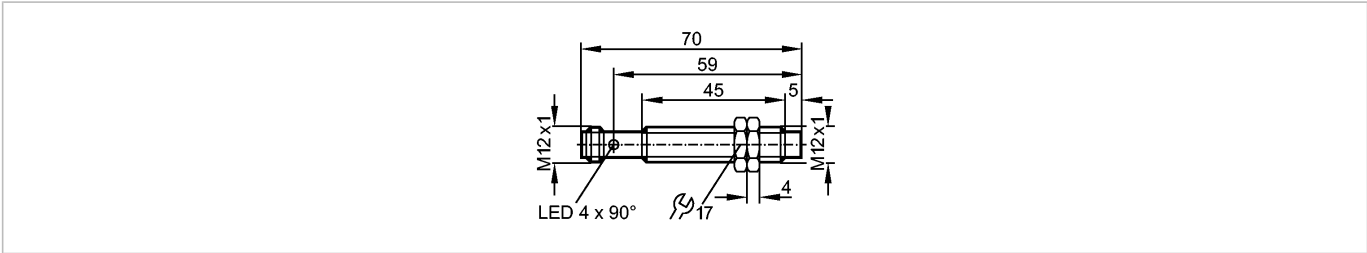


IFS209

IFKC007-ASKG/M/US-104-DRS/2LED

Inductive sensors



Made in Germany



Product characteristics

Inductive sensor
Metal thread M12 x 1
Connector
Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
Gold-plated contacts
Sensing range 7 mm; [nf] non-flush mountable

Electrical data

Electrical design	3-wire DC PNP; 2-wire DC PNP/NPN
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 12 (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.8
Minimum load current [mA]	2 *)
Leakage current [mA]	< 0.5 *)
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	500

Range

Sensing range [mm]	7
Real sensing range (Sr) [mm]	7 ± 10 %
Operating distance [mm]	0...5.7

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]	3...15
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
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IFS209

IFKC007-ASKG/M/US-104-DRS/2LED

Inductive sensors

	EN 61000-4-3 HF radiated:	10 V/m (80...1000 MHz)
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	10 V (0.15...80 MHz)
	EN 55011:	class B
MTTF	[Years]	1291

Mechanical data

Mounting	non-flush mountable	
Housing materials	Brass white bronze coated; active face: PBT	
Weight	[kg]	0.031

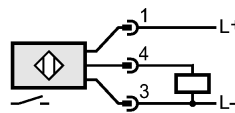
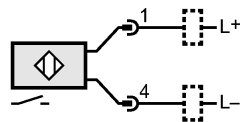
Displays / operating elements

Output status indication	LED	yellow (4 x 90°)
Setting aid	LED	Red

Electrical connection

Connection	M12 connector; Gold-plated contacts	
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Wiring



Accessories

Accessories (included)	2 lock nuts	
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Remarks

Remarks	suitable for PLC type 1 according to IEC 61131-2 *) only in 2-wire operation	
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Pack quantity	[piece]	1
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