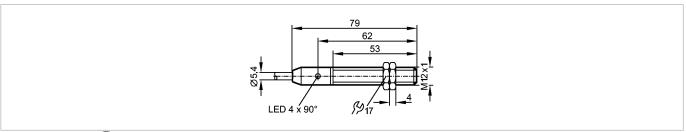
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IFM207

IFKC004BASKG/M/6M/ZH







Product characteristics					
Inductive sensor					
Metal thread M12 x 1					
Cable					
Increased sensing range					
e1 type approval					
Sensing range 4 mm; [f] flush mountable					
Electrical data					
Electrical design		3-wire DC PNP; 2-wire DC PNP/NPN			
Operating voltage	[V]	1036 DC			
Current consumption	[mA]	< 10 only in 3-wire operation			
Protection class		II			
Reverse polarity protectio	n	yes			
Outputs					
Output function		normally open			
Voltage drop	[V]	< 2.5			
Minimum load current	[mA]	> 2; only in 2-wire operation			
Leakage current	[mA]	< 0.5; only in 2-wire operation			
Current rating	[mA]	100			
Short-circuit protection		yes (non-latching)			
Overload protection		yes			
Switching frequency	[Hz]	400			
Monitoring range					
Sensing range	[mm]	4			
Operating distance	[mm]	03.24			
Accuracy / deviations					
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.5 / Cu approx. 0.4			
Hysteresis	[% of Sr]	120			
Environment					
Ambient temperature	[°C]	-4085			
Protection		IP 67 / IP 69K			

Tests / approvals

Automotive area
Noise emission and noise
interference according to the
automotive directive 95/54/EC
Noise interference according to
DIN ISO 11452-2:

(e1 type approval)

100 V/m

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Inductive sensors

	Conducted interference accord to ISO 7637-2 Pulse Severity level Failure criterion EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted: EN 55011:	1 2 3a 3b 4 5 IV IV IV IV IV IV C C A A A C 4 kV CD / 8 kV AD 10 V/m 2 kV 0.5 kV (line to line, Ri: 2Ohm) 10 V class B
Vibration resistance	EN 60068-2-6 Fc	20 g (103000 Hz) / -20°C and 50°C 50 cycles per frequency, 1 octave per minute in 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) / -40°C and 85°C
Continuous shock resistance	EN 60068-2-29 Eb	40 g (6 ms; 4000 shocks in each direction along the three coordinate axes) / -20°C and 50°C
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]		691
Mechanical data		
Mounting	flush mountable	
Housing materials		ctive face: PBT; lock nuts: brass
Weight [kg]		0.256
Displays / operating elements Output status indication LED	vello	w (4 x 90°)
Electrical connection	yene	(1, 200)
Connection	PUR cable / 6 m; 3 x 0.5 mm²; Ø 5.4 m	nm; Brennverhalten gemäß ECE R118 Rev.2
Wiring Core colors BK black BN brown BU blue	BN BK BK BU L	—-L+ 구-L-

Accessories		
Accessories (included)		2 lock nuts
Remarks		
Pack quantity	[piece]	1