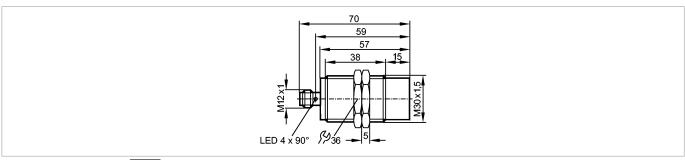
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IIM209

IIK3022-BPKG/M/60V/US-104-DPS













LISTED				
Product characteristics				
Inductive sensor				
Metal thread M30 x 1.5				
Connector				
Increased sensing range				
Gold-plated contacts				
e1 type approval				
Sensing range 22 mm; [nf]] non-flush n	nountable		
Electrical data				
Electrical design		DC PNP		
Operating voltage	[V]	1060 DC; "supply class 2" to cULus.		
Current consumption	[mA]	< 10		
Protection class		II		
Reverse polarity protection	ı	yes		
Outputs				
Output function		normally open		
Voltage drop	[V]	< 2.5		
Current rating	[mA]	200		
Short-circuit protection		pulsed		
Overload protection		yes		
Switching frequency	[Hz]	100		
Range				
Sensing range	[mm]	22		
Real sensing range (Sr)	[mm]	22 ± 10 %		
Operating distance	[mm]	017.82		
Accuracy / deviations				
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / aluminium approx. 0.45 / copper approx. 0.35		
Hysteresis	[% of Sr]	120		
Switch-point drift	[% of Sr]	-1010		
Environment				
Ambient temperature	[°C]	-4085		
Protection		IP 67 / IP 69K		

Tests / approvals

EMC

Automotive area

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Noise emission and noise interference according to the automotive directive 95/54/EC (e1 type approval) Noise interference according to DIN ISO 11452-2: 100 V/m Conducted interference according to ISO 7637-2 Pulse 1 2 3a 3b 4 5 Severity level IV IV IV IV IV IV Failure criterion CCAAAC 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 0.5 kV (Mains line to line) EN 61000-4-5 Surge: 10 V EN 61000-4-6 HF conducted:

EN 55011: class B Vibration resistance 20 g (10...3000 Hz) / -20°C and EN 60068-2-6 Fc 50°C 50 cycles per frequency, 1 octave per minute in each of 3 mutually perpendicular axes Shock resistance 100 g (11 ms half sine; 3 shocks in each direction along the three coordinate axes) / -40°C and 85°C EN 60068-2-27 Ea Continuous shock resistance 40 g (6 ms; 4000 shocks in each direction along the three coordinate EN 60068-2-29 Eb axes) / -20°C and 50°C Fast temperature changes TA = -40°C; TB = 85°C; t1 = 30EN 60068-2-14 Na min; t2 = < 10 s; 50 cycles Salt spray test EN 60068-2-52 Kb severity level 5 (4 test cycles) **MTTF** 900 [Years]

 Mechanical data

 Mounting
 non-flush mountable

 Housing materials
 housing: stainless steel; active face: PBT; lock nuts: Brass

 Weight
 [kg]

 0.124

Displays / operating elements

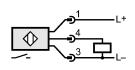
Output status indication LED yellow (4 x 90°)

Electrical connection

M12 connector; Gold-plated contacts



Connection



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