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IFS285

IFK3004BBPKG/K1/US-104



49 45 LED 4 x 90°



EMC

210.25						
Product characteristics						
Inductive sensor						
Metal thread M12 x 1						
Quick disconnect						
Increased sensing range						
Weld field immune						
Correction factor = 1						
gold-plated contacts						
Sensing range 4 mm; [f] flush mountable						
Electrical data						
Electrical design		DC PNP				
Operating voltage	[V]	1030 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				
Overload protection		yes				
Switching frequency	[Hz]	2000				
Monitoring range						
Sensing range	[mm]	4				
Real sensing range (Sr)	[mm]	4 ± 10 %				
Operating distance	[mm]	03.24				
Accuracy / deviations						
Correction factors		mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / aluminium approx. 1 / copper approx. 1				
Hysteresis	[% of Sr]	315				
Switch-point drift	[% of Sr]	-1010				
Environment						
Ambient temperature	[°C]	-4085				
Protection		IP 65 / IP 66 / IP 67 / IP 68 / IP 69K				
Max. electromagnetic field immunity	[mT]	300				
Tests / approvals						

EN 61000-4-2 ESD:

4 kV CD / 8 kV AD

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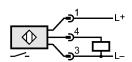
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Inductive sensors

		EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted: EN 55011:	10 V/m 2 kV 10 V class B
Vibration resistance		EN 60068-2-6 Fc	20 g (103000 Hz) / 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)
Continuous shock resistance		EN 60068-2-29 Eb	40 g (6 ms; 4000 shocks in each direction along the three coordinate axes)
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]		466
UL approval number		A005	
Mechanical data			
Mounting		flush mountable	
Housing materials		brass white bronze coated; active face: LCP white; LED window: PEI; lock nuts: brass white bronze coated	
Weight	[kg]	0.028	
Displays / operating elen	nents		
Output status indication	LED	4 :	x yellow
Electrical connection			
Connection		M12 connector;	gold-plated contacts
Wiring			





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

ifm efector, inc. \bullet 1100 Atwater Drive \bullet Malvern \bullet PA 19355 — We reserve the right to make technical alterations without prior notice. — US — IFS285 — 22.04.2015