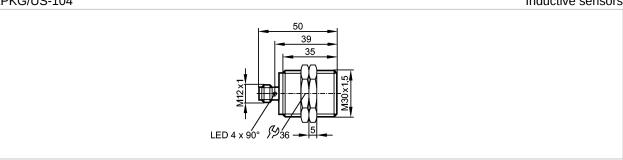




IIB3015BAPKG/US-104 Inductive sensors



LED 4 x 90 77 30				
C C CULUS				
Product characteristics				
Inductive sensor				
Metal thread M30 x 1.5				
Connector				
Increased sensing range				
Gold-plated contacts				
Sensing range 15 mm; [f] f	lush mounta	ble		
Electrical data				
Electrical design	1	D	C PNP	
Operating voltage	[V]	1030 DC: "sup	ply class 2" to cULus.	
Current consumption	[mA]		< 10	
Protection class		- III		
Reverse polarity protection		yes		
Outputs			,,,,	
Output function	1	Norm	ally closed	
Voltage drop	[V]	< 2.5		
Current rating	[mA]	100		
Short-circuit protection		yes		
Overload protection		yes		
Switching frequency	[Hz]		100	
Range				
Sensing range	[mm]		15	
Real sensing range (Sr)	[mm]	15 ± 10 %		
Operating distance	[mm]	012.15		
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]	315		
Switch-point drift	[% of Sr]	-1010		
Environment				
Ambient temperature	[°C]		4085	
Protection		IP 65 / IP 66 / IP 67 / IP 68 / IP 69K		
Tests / approvals				
EMC		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	
		EN 61000-4-6 HF conducted:	10 V	
Test of the second seco		EN 55011:	class B	
Vibration resistance			20 g (103000 Hz) / 50 cycles per	
			frequency, 1 octave per minute in	
		EN 60068-2-6 Fc	each of 3 mutually perpendicular axes	
		LIV 00000-2-0 I C	илсэ	

IIS246 - Inductive sensor - eclass: 27270101 / 27-27-01-01

Shock resistance		100 g (11 ms half sine; 3 shocks in		
		each direction along the three		
	EN 60068-2-27 Ea	coordinate axes)		
Continuous shock resistance		40 g (6 ms; 4000 shocks in each		
		direction along the three coordinate		
	EN 60068-2-29 Eb	axes)		
Fast temperature changes		TA = -40°C; TB = 85°C; t1 = 30 min;		
	EN 60068-2-14 Na	t2 = < 10 s; 50 cycles		
Salt spray test	EN 60068-2-52 Kb	severity level 5 (4 test cycles)		
MTTF [Years		1594		
UL approval number	A001			
Mechanical data				
Mounting	flush mountable			
Housing materials	Brass white bronze coated; active face: PBT orange; LED window: PEI; lock nuts:			
5	Brass white bronze coated			
Weight [kg	1	0.11		
Displays / operating elements	-1			
Output status indication LED)	4 x yellow		
Electrical connection	J -	· ·		
Connection	M12 conn	ector; Gold-plated contacts		
Wiring 2 _ 1				
2				
2	1			
	L+			
◆				
	<u>_3 </u>			
	_			
Accessories	1			
Accessories (included)		2 lock nuts		
Remarks				
Pack quantity [piece]	1		
ifm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — GB — IIS246 — 05.09.2013				