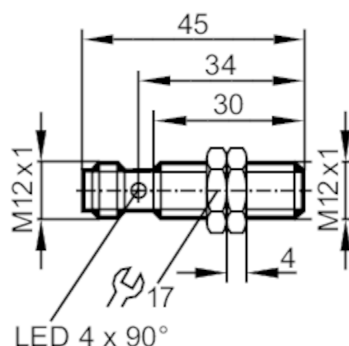


IFW210



Inductive sensor

IFB3004UBPKG/K1/SC/US-104



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	4
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 45

Application

System	gold-plated contacts; Increased sensing range; correction factor = 1; Magnetic-field immune
Application	Inductive sensors for welding applications
Magnetic-field immune	yes
Max. electromagnetic field immunity [mT]	300

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Overload protection	yes

Monitoring range

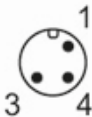
Sensing range [mm]	4
Real sensing range Sr [mm]	4 ± 10 %
Operating distance [mm]	0...3.24
Increased sensing range	yes

IFW210



Inductive sensor

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1	
Hysteresis	[% of Sr]	3...15	
Switch-point drift	[% of Sr]	-10...10	
Correction factor = 1		yes	
Operating conditions			
Ambient temperature		[°C]	-40...85
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
	EN 55011 emission		class B
MTTF	[years]	659	
Embedded software included		yes	
UL approval	Ta		-25...70 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	UL approval number		A005
	File number UL		E174191
Mechanical data			
Weight	[g]	24.3	
Housing		Threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M12 x 1 / L = 45	
Thread designation		M12 x 1	
Material		brass weld coated; sensing face: LCP black; LED window: PEI; lock nuts: brass weld coated	
Tightening torque	[Nm]	2	
Displays / operating elements			
Display		Switching status	4 x LED, yellow
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x M12; coding: A; Contacts: gold-plated			
			

IFW210



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IFB3004UBPKG/K1/SC/US-104

Connection

