

IFS209



Inductive sensor

IFKC007-ASKG/2LED/US-104



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	7
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 70

Application

System	gold-plated contacts; Increased sensing range; optical setting aid
Application	Industrial applications

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	12; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.8
Minimum load current [mA]	2; (only in 2-wire operation)
Max. leakage current [mA]	0.6; (only in 2-wire operation)
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	500
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	7
Real sensing range Sr [mm]	7 ± 10 %
Operating distance [mm]	0...5.7

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Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.5 / copper: 0.4	
Hysteresis [% of Sr]		3...15	
Switch-point drift [% of Sr]		-10...10	
Operating conditions			
Ambient temperature [°C]		-25...70	
Protection		IP 67	
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	class B
MTTF [years]		1552	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		voltage supply	Unlimited Voltage
		UL approval number	A040
		File number UL	E174191
Mechanical data			
Weight [g]		30.5	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions [mm]		M12 x 1 / L = 70	
Thread designation		M12 x 1	
Material		housing: brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated	
Tightening torque [Nm]		7	
Displays / operating elements			
Display		Switching status	4 x 90° LED, yellow
		Setting aid	1 x LED, red
Optical setting aid		yes	
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Remarks		suitable for PLC type 1 according to IEC 61131-2	
Pack quantity		1 pcs.	



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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

