efector100

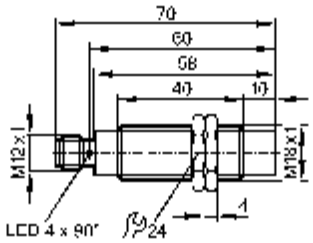
ifm electronic

Inductive sensors

IGS209

IGKC012-ASKG/M/US
Inductive sensor
Metal thread M18 x 1
Connector
Operation as 3-wire or 2-wire possible
Increased sensing range
Optical setting aid (2 LED)
gold-plated contacts

Sensing range 12 mm [nf]
non-flush mountable

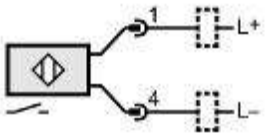


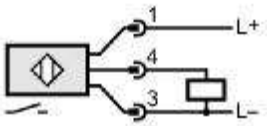
Made in Germany

Electrical design		**3-wire DC PNP; 2-wire DC PNP/NPN**
Output		**normally open**
Operating voltage	[V]	10...30 DC
Current rating	[mA]	100
Minimum load current	[mA]	2 *)
Short-circuit protection		pulsed
Reverse polarity protection		yes
Overload protection		yes
Overload protection		yes
Voltage drop	[V]	< 2.8
Leakage current	[mA]	< 0.5 *)
Current consumption	[mA]	< 12 (24 V)
Real sensing range	[mm]	12 ± 10 %
Operating distance	[mm]	0...9.7
Switch-point drift	[% of Sr]	-10...10
Hysteresis	[% of Sr]	3...15
Switching frequency	[Hz]	300
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Ambient temperature	[°C]	-25...70
Protection		IP 67, II
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m (80...1000 MHz) EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B
Housing materials		brass white bronze coated; active face: PBT (Pocan)
Function display		
Switching status	LED	yellow (4 x 90°)
Setting aid	LED	red
Connection		M12 connector; gold-plated contacts
Weight	[kg]	0.054
Remarks		suitable for PLC type 1 according to IEC 61131-2 *) only in 2-wire operation
Accessories (included)		2 lock nuts

Wiring


2
1
3
4


1
L+
4
L-


1
L+
4
3
L-