

# Proximity Switch

## IF5937

IFK2007-FRKG/M/2LED/US  
Inductive sensor  
Metal thread M12 x 1  
Plug and socket

Gold-plated contacts  
Increased sensing range  
Optical setting aid (2 LED)

Sensing range 7mm [nf]  
non-flush mountable



Electrical design	DC PNP/NPN
Output	normally open / closed programmable
Operating voltage [V]	10...36 DC
Current rating [mA]	100
Minimum load current [mA]	4
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 4.6
Leakage current [mA]	<1
Real sensing range [mm]	7± 10 %
Operating distance [mm]	0...5.7
Switch-point drift [% of Sr]	-10...10
Hysteresis [% of Sr]	1...20
Switching frequency [Hz]	500
Correction factors	mild steel =1/ stainless steel approx. 0.7 / brass approx. 0.5/A I approx. 0.5 /C u approx. 0.4
Operating temperature [°C]	-25...70
Protection	IP 68 *, II
EMC	EN 61000-4-2 ESD: 4k VC D/8k VA D EN 61000-4-3 HF radiated: 10 V/m (80... 1000 MHz) EN 61000-4-4 Burst: 2k V EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20Ohm) EN 61000-4-6 HF conducted: 10 V (0.15...80 MHz) EN 55011: class B
Housing material	brass white bronze coated; active face: PBT orange
Function display	
Switching status LED	yellow (4 x 90°)
Setting aid LED	red
Connection	M12 connector
Remarks	*) "Coolant"
Accessories (included)	2 lock nuts

### Wiring

