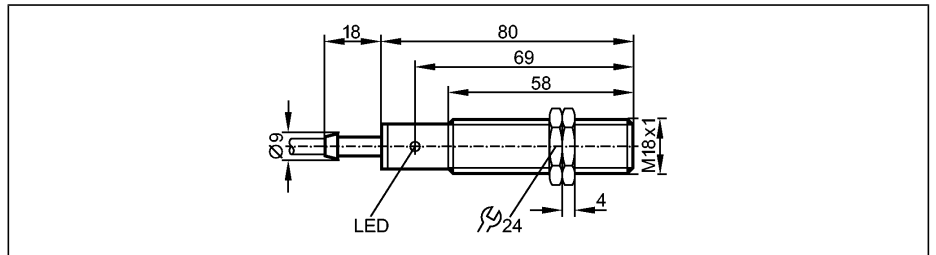


Inductive sensors

**IG5594**

IGA2005-FRKG  
Inductive sensor  
Metal thread M18 x 1  
Cable

Sensing range 5 mm [f]  
flush mountable



Made in Germany

Electrical design	DC PNP/NPN
<b>Output</b>	<b>normally open / closed programmable</b>
Operating voltage [V]	10...55 DC
Current rating [mA]	400
Minimum load current [mA]	4
Short-circuit protection	pulsed
Reverse polarity protection	yes
Overload protection	yes
Voltage drop [V]	< 4.6
Leakage current [mA]	< 0.8
Real sensing range (Sr) [mm]	5 ± 10 %
Operating distance [mm]	0...4.05
Switch-point drift [% of Sr]	-10...10
Hysteresis [% of Sr]	1...15
Switching frequency [Hz]	700
Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Ambient temperature [°C]	-25...80
Protection	IP 67, II
EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	1835
Housing materials	brass white bronze coated; active face: PC (polycarbonate)
Function display	
Switching status LED	yellow
Connection	PUR / PVC cable / 2 m; 2 x 0.5 mm <sup>2</sup>
Weight [kg]	0.139
Accessories (included)	2 lock nuts

**Wiring**

Core colours  
BK black  
WH white

