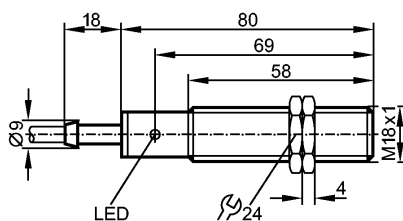


**IG5593**

IG-2005-FRKG/PH

Inductive sensors



**Product characteristics**

Inductive sensor
Plastic thread M18 x 1
Cable
Sensing range 5 mm; [f] flush mountable

**Electrical data**

Electrical design	DC PNP/NPN
Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

**Outputs**

Output function	normally open / closed programmable
Voltage drop [V]	< 4.6
Minimum load current [mA]	4
Leakage current [mA]	< 0.8
Current rating [mA]	400
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	700

**Monitoring range**

Sensing range [mm]	5
Real sensing range (Sr) [mm]	5 ± 10 %
Operating distance [mm]	0...4.05

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

**Environment**

Ambient temperature [°C]	-25...80
Protection	IP 67

**Tests / approvals**

EMC	EN 60947-5-2
MTTF [Years]	1835

**Mechanical data**

Mounting	flush mountable
Housing materials	PBT
Weight [kg]	0.107

**IG5593**

IG-2005-FRKG/PH

**Inductive sensors**

**Displays / operating elements**

Output status indication      LED      yellow

**Electrical connection**

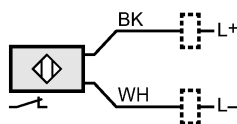
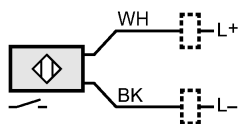
Connection      PUR / PVC cable / 2 m; 2 x 0.5 mm<sup>2</sup>

**Wiring**

Core colors

BK    black

WH    white



**Accessories**

Accessories (included)      2 lock nuts

**Remarks**

Pack quantity      [piece]      1