Inductive Proximity Sensor

FNC IPS12 Series



Features

- **High-precision sensing**
- **Industrial durability**
- **High switching speed**
- **Advanced protection**
- **Plug-and-play flexibility**

Electrical Data

Sensing range S_n	: 0 … 4 mm
Safe sensing range S_a	: 0 … 3.2 mm
Output type	: PNP
Operation voltage	: 10...30 VDC
Switching frequency	: 2000 Hz
Hysteresis	: %5...%15
Reverse polarity protection	: Reverse polarity protected
Short circuit protection	: Short circuit protected
Operating current	: 0...200 mA
No-load supply current	: ≤15 mA
Time delay before availability	: ≤ 5 ms
Swiching status indicator: NO status Led NC status Led	 : Blue : Red

Mechanical Data

Housing material	: Nickel
Sensing face material	: Plastic
Thread size	: M12x1
Diameter	: Ø 12 mm
Connection types	: Cable or M1205 connector
Operating temperature	: -35 … +70 °C
Storage temperature	: -40 … +85 °C
Protection class	: IP 67
Protection class (connection)	: IP 67

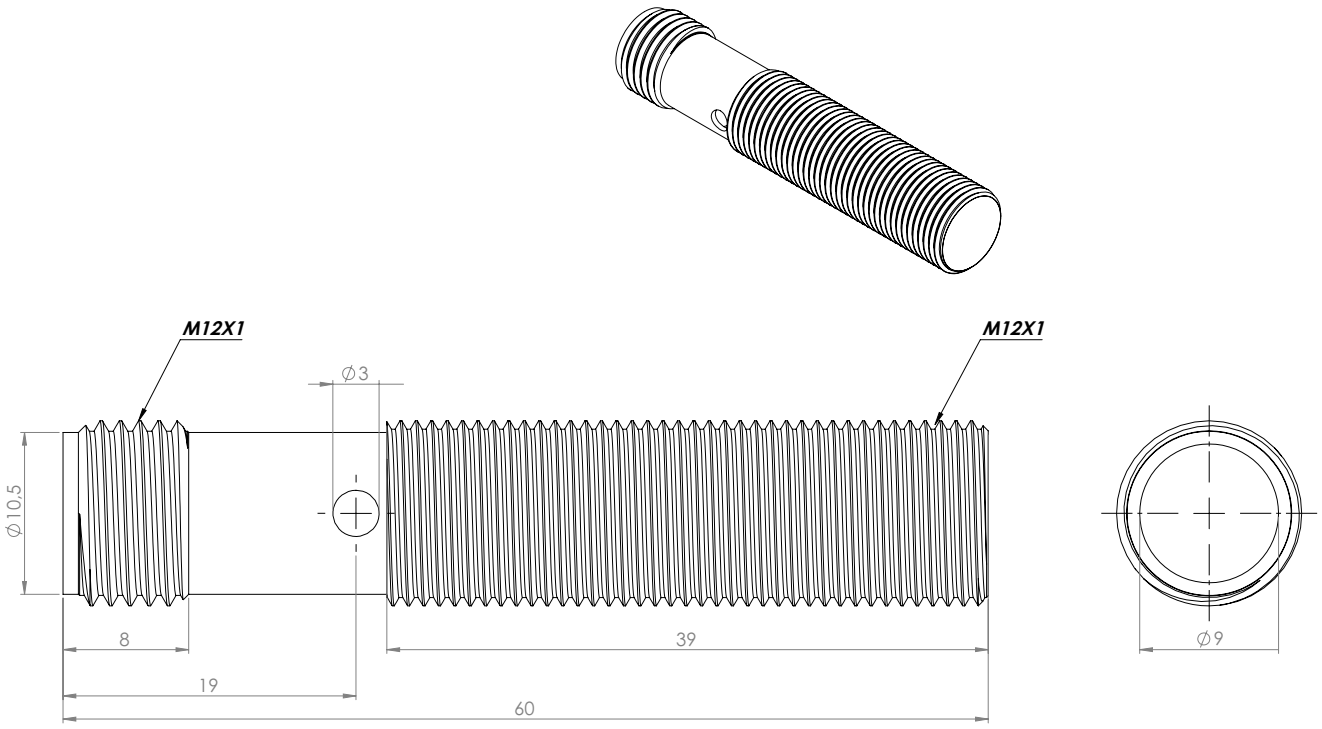
Reduction Factor

St37 steel (Fe)	: 1
Stainlees steel (316,304)	: Approx. 0.8
Aluminum (Al)	: Approx. 0.45
Copper (Cu)	: Approx. 0.4
Brass (Br)	: Approx. 0.4

Inductive Proximity Sensor
Cable / Connector Wiring, Mechanical Dimensions

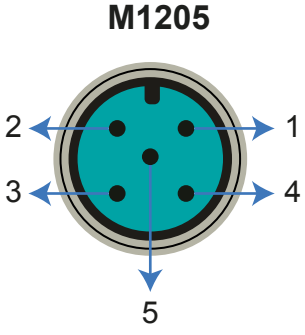
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Mechanical Dimensions



Connection

Pin	Color Pre- wired models only	Function
1	White	GND
2	Yellow	NC
3	Green	NO
4	Brown	VCC
5		Not Connected



M1205
Male
Connector

FNC IPS12 Series

FNC IPS 12 Part Number

