



Inductive Sensors Ø 12



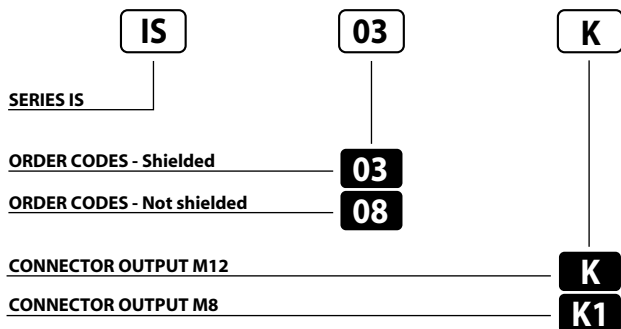
INDUCTIVE SENSORS CONFORMING TO NAMUR RULES

- Two-wire sensors
- 5-24 VAC/VDC input
- Nickel plated brass
- Shielded versions up to 2 mm
- Not shielded versions up to 4 mm

IS Series

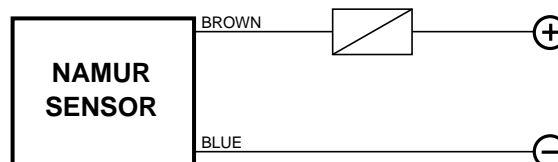


Identification code

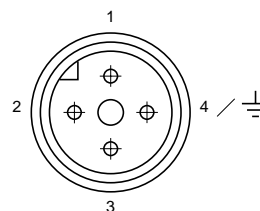


| | SHIELDED | NOT SHIELDED |
|---------------------------------------|--------------------------|--------------|
| NOMINAL SWITCHING DISTANCE (Sn) | 2 mm | 4 mm |
| NOMINAL VOLTAGE (Load resistance 1 K) | 7.7 ÷ 9 V DC | |
| DC SUPPLY VOLTAGE | 5 ÷ 24 V DC | |
| RESIDUAL RIPPLE | ≤ 10% | |
| HYSTERESIS | ≤ 10% | |
| OUTPUT CURRENT (Metal present) | ≤ 1 mA | |
| OUTPUT CURRENT (Metal absent) | ≤ 3 mA | |
| SWITCHING FREQUENCY | 2000 Hz | |
| REPEATABILITY | ≤ 3% | |
| TEMPERATURE LIMITS | -25 ÷ +60 °C | |
| PROTECTION DEGREE | IP 67 | |
| CABLE LENGTH | 2 m | |
| CABLE SECTION | 2 x 0.25 mm ² | |
| HOUSING MATERIAL | Nickel-plated brass | |
| WEIGHT - Cable output - | 110 g | |
| WEIGHT - K1 connector output - | 60 g | |
| WEIGHT - K connector output - | 60 g | |

Wiring diagrams



Connection with connector M12 (K)



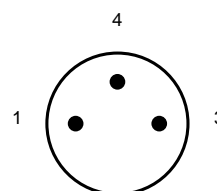
View of quadrupole male connector

CONTACTS CONFIGURATION

| Available | Contacts numbers | | | |
|-----------|------------------|---|---|---|
| | 1 | 2 | 3 | 4 |
| NAMUR | + | | - | |

NOTE: The K plug is compatible with the following connectors VAUDEHA, BINDER, HIRSCHMANN, LUMBERG and AMPHENOL-TUCHEL.

Connection with connector M8 (K1)



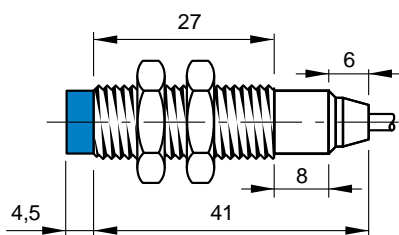
View of tripole male connector

CONTACTS CONFIGURATION

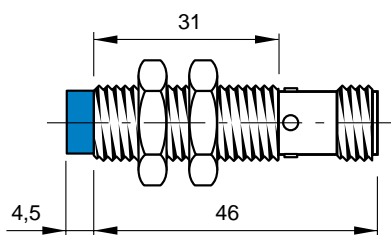
| Available | Contacts numbers | | |
|-----------|------------------|---|---|
| | 1 | 3 | 4 |
| NAMUR | + | - | |

Dimensions (mm)

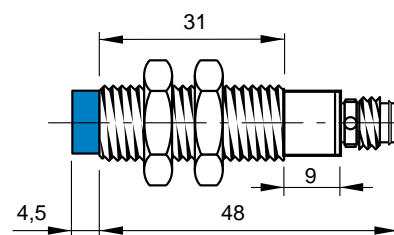
CONFIGURATION WITH CABLE



CONFIGURATION WITH CONNECTOR K



CONFIGURATION WITH CONNECTOR K1



Note: The front part in blue refers to not shielded models