



Amplified Inductive Sensors Ø 12

AMPLIFIED INDUCTIVE SENSORS INCREASED RANGE 12÷30 VDC 4 WIRES PROGRAMMABLE OUTPUT

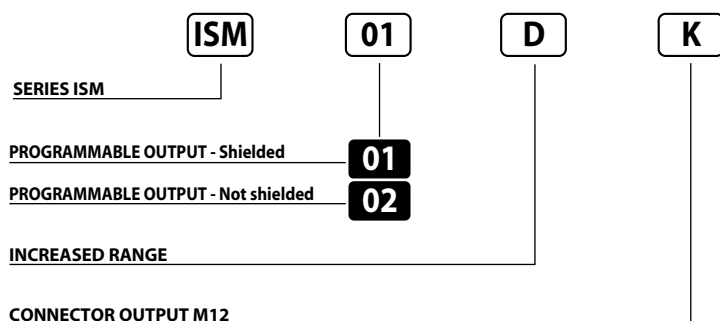
- Four-wire, shielded sensors
- Increased range, shielded, not shielded
- Range, 4 mm to 8 mm
- Programmable outputs: NPN/PNP, NO or NC
- Cable or M12 quick-connect
- Nickel plated brass
- Operation LED
- 200 mA max output

ISM Series

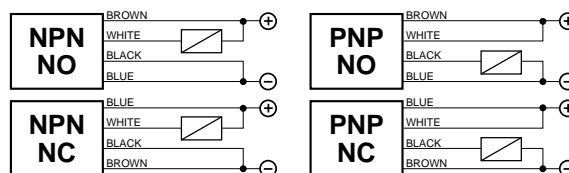
New



Identification code

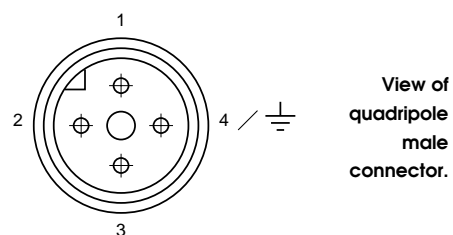


Wiring diagrams



Thanks to the output status which is not paired with the rest of the circuit, the sensors of this kind of availability give enormous advantages, such as the possibility of obtaining the four output configurations (NPN-NO, NPN-NC, PNP-NO, PNP-NC) on the same model and the possibility of obtaining serial or parallel connections without any practical numerical limit.

Connection with connector M12 (K)



CONTACTS CONFIGURATION

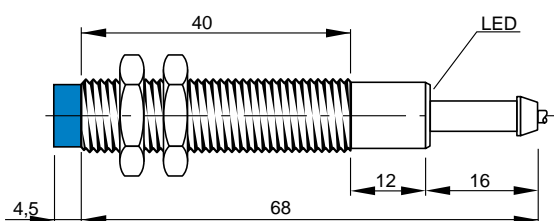
| Output | Contacts numbers | | | |
|--------|------------------|----|---|----|
| | 1 | 2 | 3 | 4 |
| NPN NO | + | NO | - | - |
| NPN NC | - | NC | + | - |
| PNP NO | + | + | - | NO |
| PNP NC | - | + | + | NC |

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

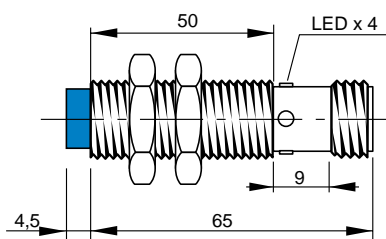
| | SHIELDED | NOT SHIELDED |
|---------------------------------|---|--------------|
| NOMINAL SWITCHING DISTANCE (Sn) | 4 mm | 8 mm |
| NOMINAL VOLTAGE | 12 ÷ 30 VDC (-15/+10%) | |
| RESIDUAL RIPPLE | ≤ 10% | |
| HYSTERESIS | < 10% | |
| OUTPUT | NPN or PNP (may be selected) | |
| CONTACT | NO or NC (may be selected) | |
| MAX. CURRENT OUTPUT | 200 mA | |
| ABSORPTION AT 24 VDC | < 1.2 mA | |
| VOLTAGE DROP (Sensor ON) | < 1,8 V (I = 100 mA) | |
| OPERATION LED | Yellow | |
| SWITCHING FREQUENCY | 500 Hz | |
| START UP DELAY | ≤ 50 mS | |
| REPEATABILITY | ≤ 3% | |
| SHORT CIRCUIT PROTECTION | Present (self-resetting) | |
| ELECTRIC PROTECTIONS | Against polarity reversal - inductive loads | |
| TEMPERATURE LIMITS | - 25 ÷ +70 °C | |
| PROTECTION DEGREE | IP 67 | |
| CABLE LENGTH | 2 m | |
| CABLE SECTION | 4 x 0.25 mm ² | |
| HOUSING MATERIAL | Nickel-plated brass | |
| WEIGHT - Cable output - | 110 g | |
| WEIGHT - K connector output - | 60 g | |

Dimensions (mm)

CONFIGURATION WITH CABLE



CONFIGURATION WITH CONNECTOR K



Note: the front part in blue refers to not shielded models.

To locate additional product specifications and technical drawings go to www.asi-ez.com