

# AMPLIFIED INDUCTIVE SENSORS

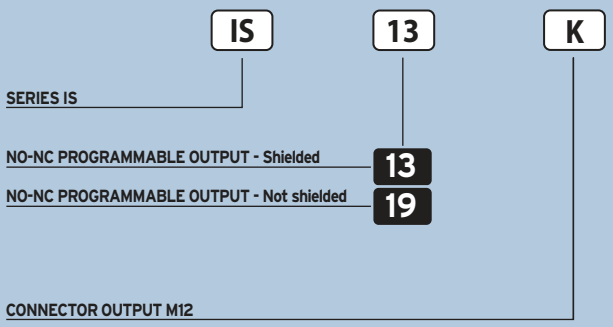
## Ø 18

## 10÷30 V DC - 2 WIRES NO-NC PROGRAMMABLE OUTPUT

- Range, 5mm to 8mm - shielded, not shielded
- Cable or M12 quick connect models
- Nickel plated brass

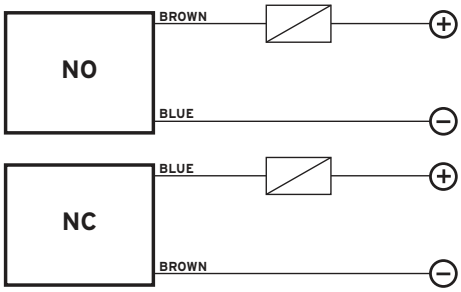
**IS Series**

## IDENTIFICATION CODE



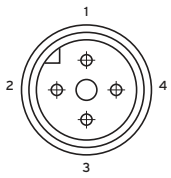

| | SHIELDED | NOT SHIELDED |
|---|---|---|
| NOMINAL SWITCHING DISTANCE (Sn) | **5 mm** | **8 mm** |
| NOMINAL VOLTAGE | 10 ÷ 30 VDC (-15 / +10%) | |
| RESIDUAL RIPPLE | ≤ 10% | |
| HYSTERESIS | < 10% | |
| MAX. OUTPUT CURRENT | 100 mA | |
| MIN. OUTPUT CURRENT | > 1,6 mA | |
| RESIDUAL CURRENT | < 1,6 mA | |
| VOLTAGE DROP | < 6,5 V (I = 100 mA) | |
| OPERATION LED | Yellow | |
| SWITCHING FREQUENCY | 1000 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 | 2 x 0.25 mm² | |
| HOUSING MATERIAL | Nickel-plated brass | |
| WEIGHT - Cable output - | 145 g | |
| WEIGHT - K connector output - | 95 g | |

## WIRING DIAGRAMS




**WARNING:** The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.

## CONNECTION WITH CONNECTOR M12 (K)



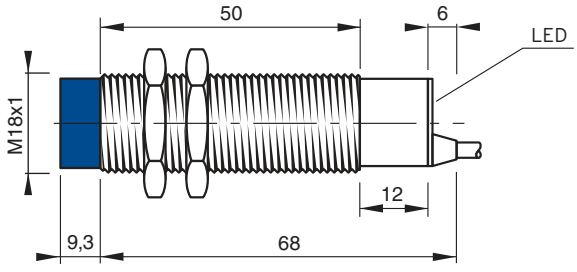

**View of quadripole male connector**

### CONTACTS CONFIGURATION

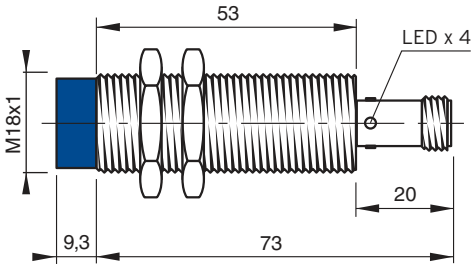
| Available | Contacts numbers | | | |
|---|---|---|---|---|
| | 1 | 2 | 3 | 4 |
| NO | + | | − | |
| NC | − | | + | |

## DIMENSIONS (mm)

CONFIGURATION WITH CABLE




CONFIGURATION WITH CONNECTOR K




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



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