



# AMPLIFIED INDUCTIVE SENSORS

**Ø 12**

24÷230 V AC - 2 WIRES NO OR NC OUTPUT

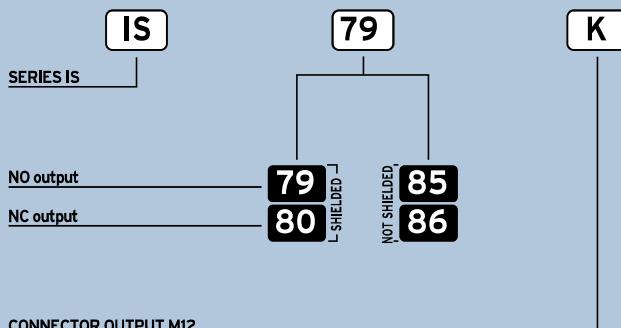
- Range, 2mm to 4mm - shielded, not shielded
- Cable or M12 quick connect models
- Ultra low consumption < 0,7 mA
- Max inrush current (20ms) 1,5A
- 300mA max output



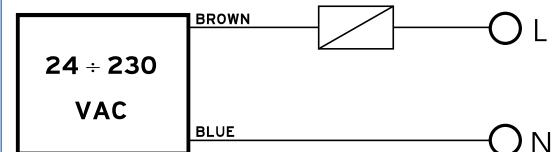
IS Series



## IDENTIFICATION CODE



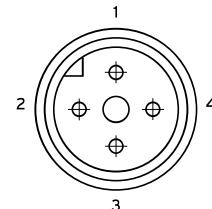
## WIRING DIAGRAMS



**Warning:** Short circuit in the output is not possible. Wrong supply cables connections can irreparably damage the detector. Therefore sensors whose output status is short-circuited will not be substituted under warranty.

|                                 | SHIELDED                 | NOT SHIELDED |
|---------------------------------|--------------------------|--------------|
| NOMINAL SWITCHING DISTANCE (Sn) | 2 mm                     | 4 mm         |
| NOMINAL VOLTAGE                 | 24 ÷ 230 VAC (-15/+10%)  |              |
| NET FREQUENCY                   | 50 ÷ 60 Hz               |              |
| HYSTERESIS                      | < 10%                    |              |
| MAX. OUTPUT CURRENT             | 300 mA                   |              |
| MIN. OUTPUT CURRENT             | 20 mA                    |              |
| MAX. INRUSH CURRENT (20 ms)     | 1,5 A                    |              |
| RESIDUAL CURRENT                | < 0,7 mA                 |              |
| VOLTAGE DROP (Sensor ON)        | < 5 V (I = 100 mA)       |              |
| OPERATION LED                   | Yellow                   |              |
| SWITCHING FREQUENCY             | 12 Hz                    |              |
| START UP DELAY                  | ≤ 300 ms                 |              |
| REPEATABILITY                   | ≤ 3%                     |              |
| TEMPERATURE LIMITS              | -25 ÷ +70 °C             |              |
| PROTECTION DEGREE               | IP 67                    |              |
| CABLE LENGTH                    | 2 m                      |              |
| CABLE SECTION                   | 2 x 0.25 mm <sup>2</sup> |              |
| HOUSING MATERIAL                | Nickel-plated brass      |              |
| WEIGHT - Cable output -         | 110 g                    |              |
| WEIGHT - K connector output -   | 60 g                     |              |

## CONNECTION WITH CONNECTOR M12 (K)



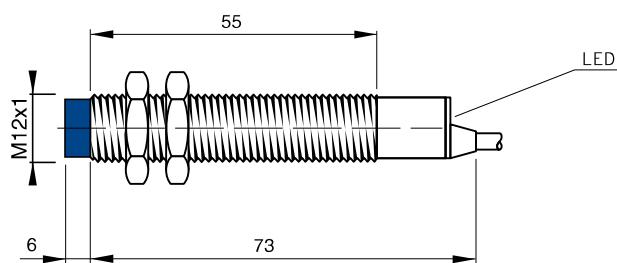
View of quadrupole male connector.

## CONTACTS CONFIGURATION

| Available  | Contacts numbers |   |   |   |
|------------|------------------|---|---|---|
|            | 1                | 2 | 3 | 4 |
| (NO or NC) | L                |   | N |   |

## DIMENSIONS (mm)

CONFIGURATION WITH CABLE



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

CONFIGURATION WITH CONNECTOR K

