

# AMPLIFIED INDUCTIVE SENSORS

## Ø 18

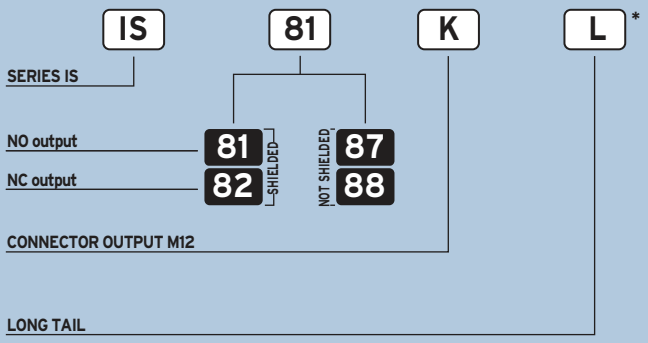
## 24÷230 V AC - 2 WIRES NO OR NC OUTPUT

- Range, 5mm to 8mm - shielded, not shielded
- Cable or M12 quick connect models
- Ultra low consumption < 0,7 mA
- Max inrush current (20ms) 1.5A
- 300mA max output

INFRA

**IS Series**

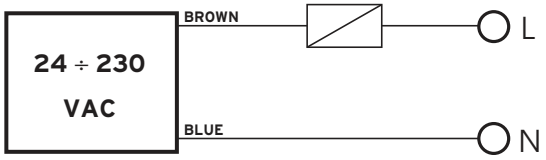
## IDENTIFICATION CODE




* Long tail option not available with option "K".

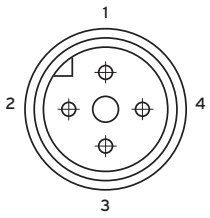
| | SHIELDED | NOT SHIELDED |
|---|---|---|
| NOMINAL SWITCHING DISTANCE (Sn) | **5 mm** | **8 mm** |
| NOMINAL VOLTAGE | 24 ÷ 230 VAC (-15/+10%) | |
| NET FREQUENCY | 50 ÷ 60 Hz | |
| HYSTERESIS | < 10% | |
| MAX. OUTPUT CURRENT | 300 mA | |
| MIN. OUTPUT CURRENT | 20 mA | |
| MAX. INRUSH CURRENT (20 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 mm² | |
| HOUSING MATERIAL | Nickel-plated brass | |
| WEIGHT - Cable output - | 145 g | |
| WEIGHT - K connector output - | 95 g | |

## 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.

## CONNECTION WITH CONNECTOR M12 (K)



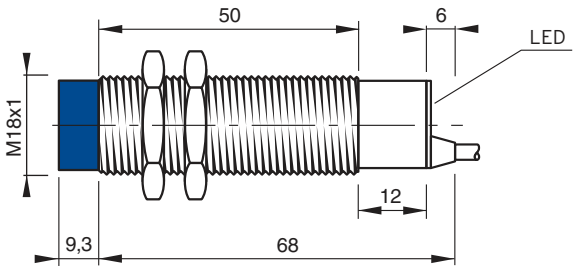

**View of quadripole male connector.**

### CONTACTS CONFIGURATION

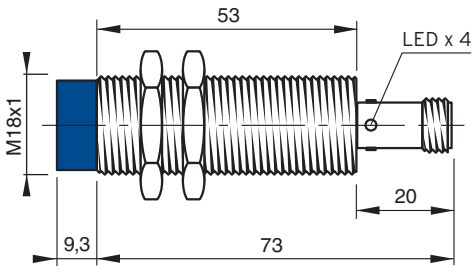
| Available | Contacts numbers | | | |
|---|---|---|---|---|
| | **1** | **2** | **3** | **4** |
| (NO or NC) | L | | N | |

## DIMENSIONS (mm)

CONFIGURATION WITH CABLE




CONFIGURATION WITH CONNECTOR K




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



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