



Retro Ref. Photoelectric Sensors



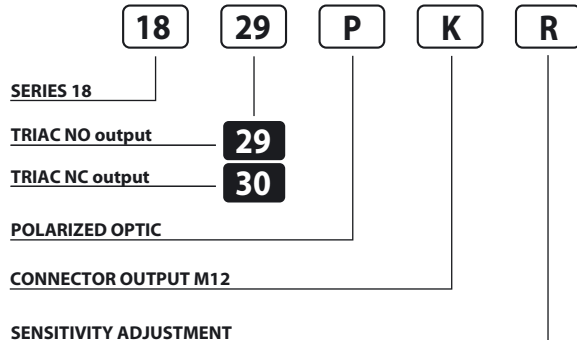
PHOTOELECTRIC SENSORS IN PLASTIC HOUSING 24 ÷ 230 V AC TRIAC NO AND NC OUTPUT

- Short housing
- Leakage <math>< 1.5 \text{ mA}</math> @ 220 V AC
- Cable or M12 quick connect models
- Models with 9-turn pot

18 Series



Identification code



"K" and "R" not available in the same model.

| AVAILABLE | POLARIZED | STANDARD |
|---------------------------------|--|--------------------|
| NOMINAL SWITCHING DISTANCE (Sn) | 1 m ⁽¹⁾ | 3 m ⁽¹⁾ |
| TOLERANCE | +10/-10 %Sn | |
| HYSTERESIS | 10% | |
| EMISSION | Red (660 nm) | Infrared (875 nm) |
| NOMINAL VOLTAGE | 24 ÷ 230VAC (-15 /+10%) | |
| MAINS FREQUENCY | 50 ÷ 60 Hz | |
| MAX. OUTPUT CURRENT | 150 mA | |
| LEAKAGE CURRENT | ≤ 1.5mA (at 220VAC) | |
| ABSORPTION | 1 W | |
| VOLTAGE DROP (Sensor ON) | < 2.5 V | |
| OPERATION LED | Yellow | |
| SWITCHING FREQUENCY | 10 Hz | |
| RESPONSE TIME | 100 mS | |
| START UP DELAY | 300 mS | |
| ELECTRIC PROTECTIONS | Against inductive loads | |
| TEMPERATURE LIMITS | -10 ÷ +60 °C | |
| LIGHT IMMUNITY | 5.000 Lux ⁽²⁾ | |
| PROTECTION DEGREE | IP 67 (IP 65 for models with sensitivity adjustment) | |
| CABLE LENGTH | 2 m | |
| CABLE SECTION | 3 x 0.35 mm ² | |
| HOUSING MATERIAL | Housing: nylon loaded with fiberglass - Lenses: methacrylate | |
| WEIGHT - cable output - | 120 g | |

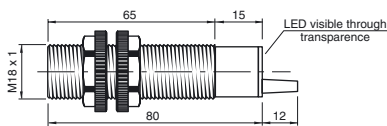
⁽¹⁾ Determined with CT04S reflector.

⁽²⁾ Determined with halogen tungsten lamp 3000 °K.

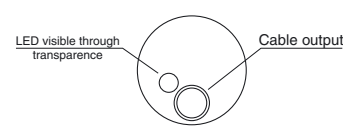
Note: for a proper use see norms at pages 12, 13, 14, 15 and 16.

Dimensions (mm)

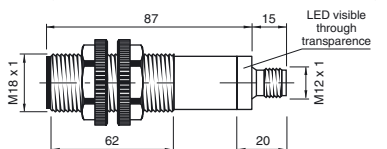
Configuration with cable



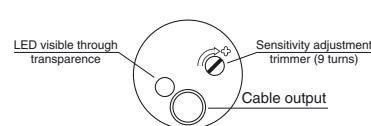
Configuration with cable - Back view



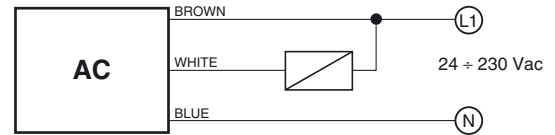
Configuration with connector K (metal housing)



Configuration with sensitivity adjustment



Wiring diagrams



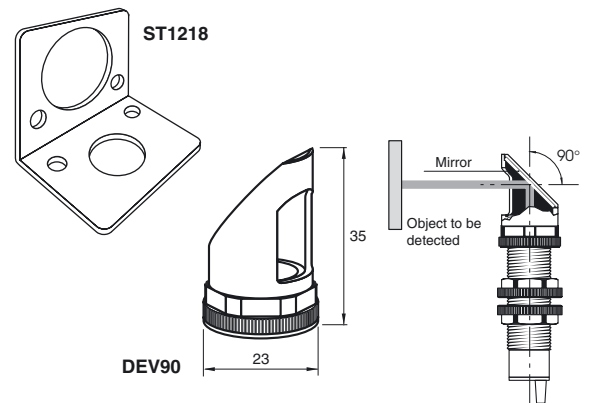
WARNING: Short circuit in the output is not possible. Wrong supply cables connections can irreparably damage the detector. Therefore sensors whose output status is short-circuited will not be substituted under warranty.

CONNECTIONS IN PARALLEL

In parallel connections with multiple outputs, the maximum leakage current (<math>< 1,5 \text{ mA}</math> at 220 VAC) referring to the load and the supply should be taken into account when calculating the max. quantity of connectable sensors.

It is important in this connection that the sensors are connected at the same phase.

Accessories



Characteristic curves

