

Retro Ref. Photoelectric Sensors



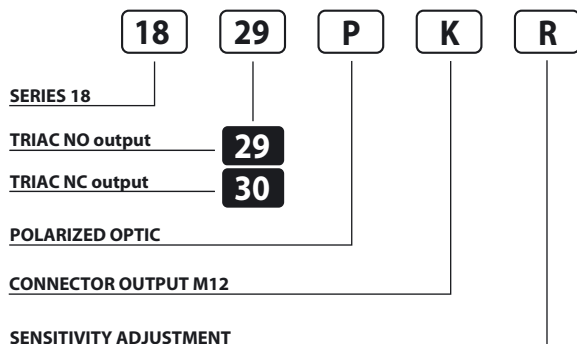
PHOTOELECTRIC SENSORS IN PLASTIC HOUSING 24 ÷ 230 V AC TRIAC NO AND NC OUTPUT

- 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	

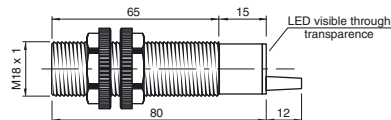
⁽¹⁾ Determined with CT04S reflector.

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

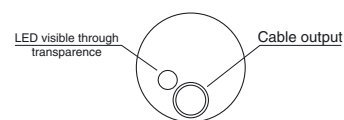
Note: for a proper use see norms at pages 14, 15, 16, 17 and 18.

Dimensions (mm)

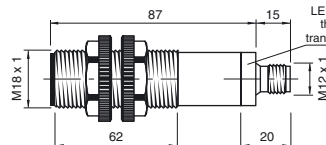
Configuration with cable



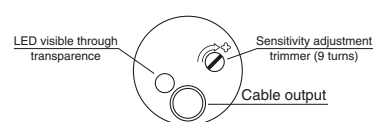
Configuration with cable - Back view



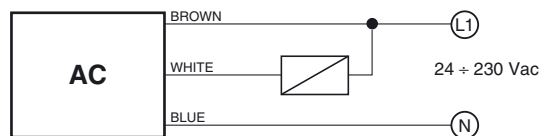
Configuration with connector K (metal housing)



Configuration with sensitivity adjustment

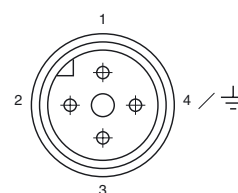


Wiring diagrams



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.

Connection with connector M12 (K)



View of quadripole male connector.

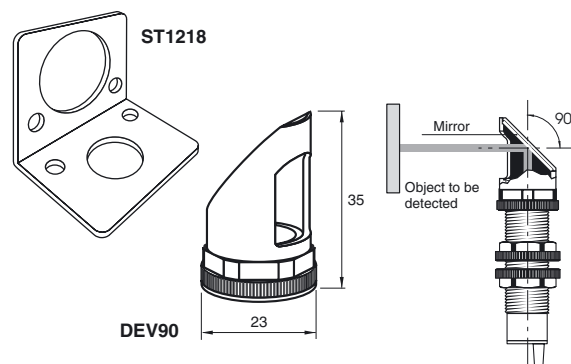
CONTACTS CONFIGURATION

Output (NO or NC)	Contacts numbers			
	1	2	3	4
	L		N	NO/NC

CONNECTIONS IN PARALLEL

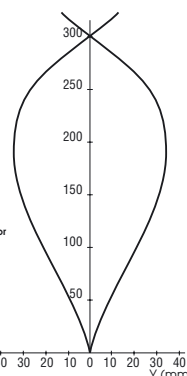
In parallel connections with multiple outputs, the maximum leakage current (<math>< 1.5 \text{ mA}</math> at 220 VAC) referring to the load and the supply should be taken into account when calculating the max. quantity of connectable sensors. It is important in this connection that the sensors are connected at the same phase.

Accessories



Characteristic curves

RETRO REFLECTIVE
Distance X (cm)



POLARIZED RETRO REFLECTIVE
Distance X (cm)

