

PHOTOELECTRIC SENSORS

RETRO REFLECTIVE

24÷230 V AC TRIAC NO AND NC OUTPUT

- 18mm tubolar in metal housing
- Leakage <1.5 mA @ 220 V AC
- Cable or M12 quick connect models
- Models with 9-turn pot

INFRA

18 Series

IDENTIFICATION CODE

18	29	P	K*	R*

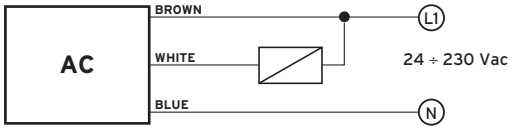
- **18** — SERIES 18
- **29** — TRIAC NO output
- **30** — TRIAC NC output
- **P** — POLARIZED OPTIC
- **K** — CONNECTOR OUTPUT M12
- **R** — SENSITIVITY ADJUSTMENT

* "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	50 ms	
START UP DELAY	300 ms	
ELECTRIC PROTECTIONS	Againts 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 mm²	
HOUSING MATERIAL	Housing: nickel-plated brass - Lenses: methacrylate	
WEIGHT - cable output -	120 g	

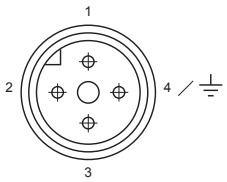
(1) Determined with CT04S reflector.
(2) Determined with halogen tungsten lamp 3000 °K.
Note: for a proper use see norms at pages 18, 19, 20, 21 and 22.

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)



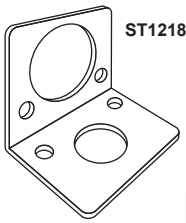
View of quadripole male connector.

CONTACTS CONFIGURATION

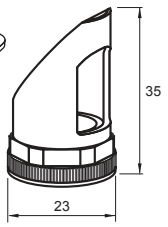
Output	Contacts numbers			
	1	2	3	4
(NO or NC)	L		N	NO/NC

CONNECTIONS IN PARALLEL
In parallel connections with multiple outputs, the maximum leakage current (<1,5 mA 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.

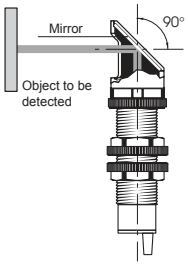
ACCESSORIES



ST1218

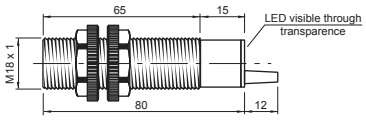


DEV90

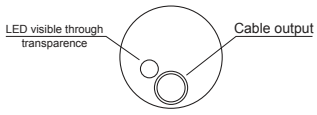


DIMENSIONS (mm)

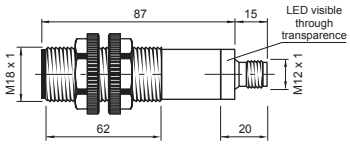
Configuration with cable



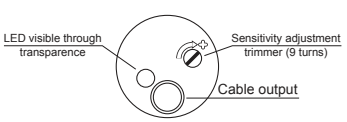
Configuration with cable - Back view



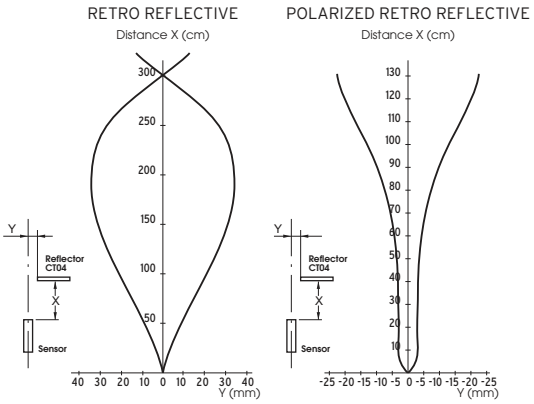
Configuration with connector K (metal housing)



Configuration with sensitivity adjustment



CHARACTERISTIC CURVES



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