

PHOTOELECTRIC SENSORS

DIFFUSE REFLECTIVE

24÷230 V AC - TRIAC NC OUTPUT

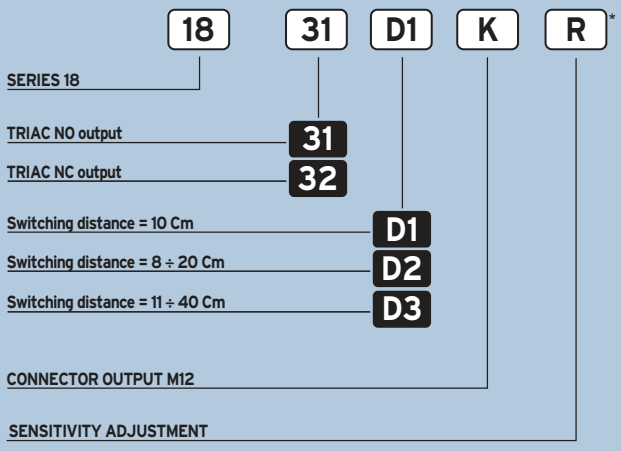
- 18mm tubolar in metal housing
- Leakage <1.5 mA@ 220 V AC
- Models w/o pots for simple installation
- Cable or M12 quick connect models
- Models with 9-turn pot

INFRA

18 Series

c UL us LISTED CE 2 YEARS WARRANTY

IDENTIFICATION CODE

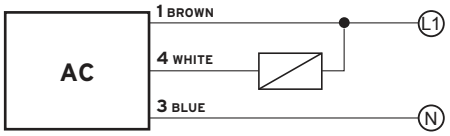


"K" and "R" not available in the same model.
* "R" available only for D2 and D3 models.

	D1	D2	D3
NOMINAL SWITCHING DISTANCE (Sn)	**10 cm** (1)	**8 ÷ 20 cm** (1)	**11 ÷ 40 cm** (1)
TOLERANCE	+10/-10 %Sn		
HYSTERESIS	10%		
EMISSION	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	5000 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 a white mat paper (cm 10 x 10).
(2) Determined with halogen tungsten lamp 3000 °K.
Note: for a proper use see norms at pages 18, 19, 20, 21 and 22.

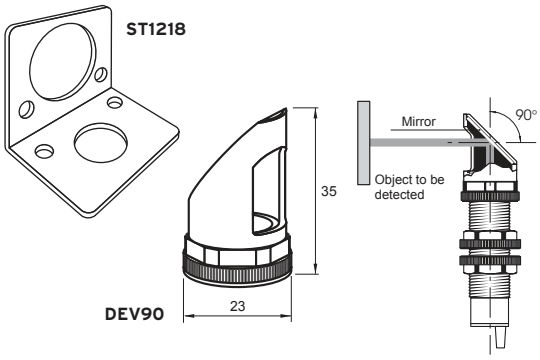
WIRING DIAGRAMS



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.

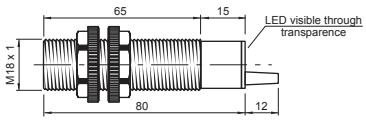
CONNECTIONS IN PARALLEL
In parallel connections with multiple outputs, the maximum leakage current (<1,5 mA at 220 VAC) referring to the load and the supply
should be taken into account when calculating the max. quantity of connectable sensors.
It is important in this connection that the sensors are connected at the same phase.

ACCESSORIES

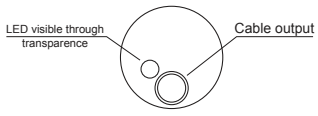


DIMENSIONS (mm)

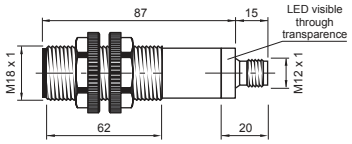
Configuration with cable



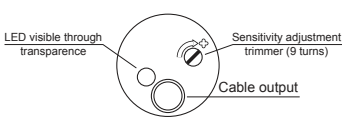
Configuration with cable - Back view



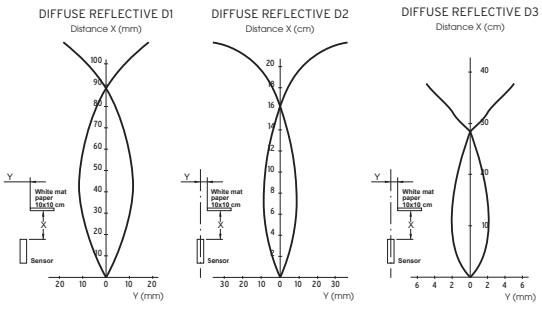
Configuration with connector K (metal housing)



Configuration with sensitivity adjustment



CHARACTERISTIC CURVES



PHOTOELECTRIC

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