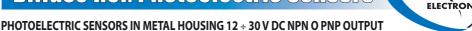


Diffuse Ref. Photoelectric Sensors

ELECTRONIC SENSORS



- Miniature 18 mm tubular
- Operation LED visible laterally and at the back
- · Cable or M12 quick connect models
- Long working distances
- Fast response time: 2 mS / 500 Hz

18 Series

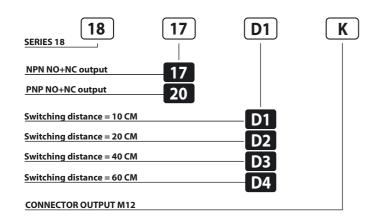






SINCERT

Identification code

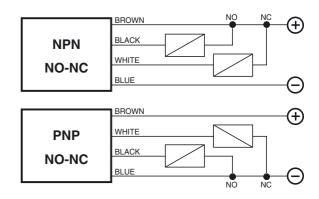


AVAILABLE	D1	D2	D3	D4		
NOMINAL SWITCHING DISTANCE (Sn)	10 cm ⁽¹⁾	20 cm ⁽¹⁾	40 cm ⁽¹⁾	60 cm ⁽²⁾		
TOLERANCE	+10/-10 %Sn					
HYSTERESIS	10%					
EMISSION	Infrared (875 ηm)					
NOMINAL VOLTAGE	12 ÷ 30VDC (-15 /+10%)					
RESIDUAL RIPPLE	≤ 10%					
MAX. OUTPUT CURRENT	200 mA					
ABSORPTION AT 30 VDC	40 mA					
VOLTAGE DROP (Sensor ON)	≤ 1.5V (I = 200 mA)					
OPERATION LED	Yellow					
SWITCHING FREQUENCY	500 Hz					
RESPONSE TIME	2 mS					
START UP DELAY	100 mS					
SHORT CIRCUIT PROTECTION	Present (self-resetting)					
ELECTRIC PROTECTIONS	Againts polarity reversal - inductive loads					
TEMPERATURE LIMITS	-10 ÷ +60 °C					
LIGHT IMMUNITY	> 10.000 Lux (3)					
PROTECTION DEGREE	IP 67					
CABLE LENGTH	2 m					
CABLE SECTION	3 x 0.25 mm ²					
HOUSING MATERIAL	Housing: nick	Housing: nickel-plated brass - Lenses: methacrylate				
WEIGHT - cable output - (connector output)	- 110 g - (55 g)					

 $^{^{(1)}}$ Determined with a white mat paper (cm 10 x 10).

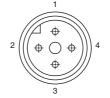
Note: for a proper use see norms at pages 12, 13, 14, 15 and 16.

Wiring diagrams



Connection with connector M12 (K)

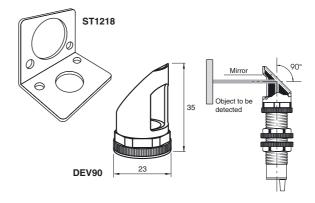
View of quadripole male connector.



CONTACTS CONFIGURATION

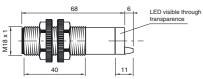
Available	Contacts numbers					
	1	2	3	4		
(NO + NC)	+	NC	-	NO		

Accessories

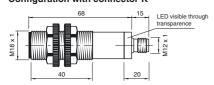


Dimensions (mm)

Configuration with cable



Configuration with connector K



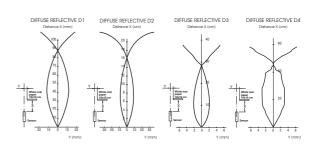
Configuration with cable - Back view



Configuration with connector K Back view



Characteristic curves



25

Determined with a white mat paper (cm 20 x 20).

⁽³⁾ Determined with halogen tungsten lamp 3000 °K.