

Thru Beam Photoelectric Sensors



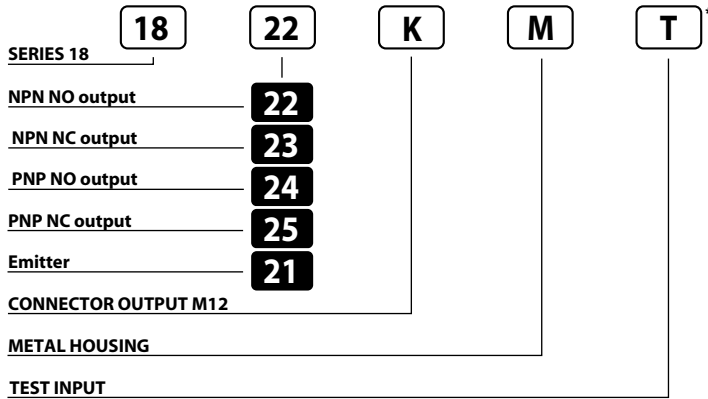
PHOTOELECTRIC SENSORS IN STANDARD HOUSING 12 ÷ 30 V DC NPN O PNP OUTPUT

- Miniature 18 mm tubular
- Operation LED aids installation
- Cable or M12 quick connect models
- Emitter with test input

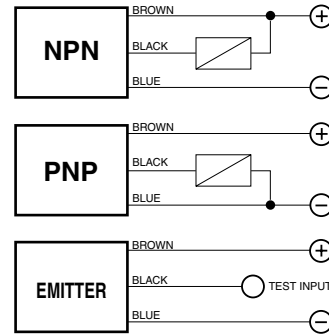
18 Series



Identification code



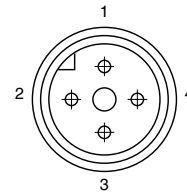
Wiring diagrams



AVAILABLE	RECEIVER	EMITTER
SWITCHING DISTANCE (+/- 20%)	25 m	
HYSTERESIS	10%	
EMISSION	-	Infrared (875 nm)
NOMINAL VOLTAGE	12 ÷ 30VDC (-15 /+10%)	
RESIDUAL RIPPLE	≤ 10%	
MAX. OUTPUT CURRENT	200 mA	-
ABSORPTION AT 30 VDC	15 mA	
VOLTAGE DROP (Sensor ON)	≤ 1.5V (I = 200 mA)	-
OPERATION LED	Yellow	
SWITCHING FREQUENCY	200 Hz	
RESPONSE TIME	5 mS	
START UP DELAY	100 mS	
SHORT CIRCUIT PROTECTION	Present (self-resetting)	
ELECTRIC PROTECTIONS	Against polarity reversal - inductive loads	
TEMPERATURE LIMITS	-10 ÷ +60 °C	
LIGHT IMMUNITY	> 10000 Lux ⁽¹⁾	
PROTECTION DEGREE	IP 67 (IP 65 for models with sensitivity adjustment)	
CABLE LENGTH	2 m	
CABLE SECTION	3 x 0.25 mm ²	3/2 x 0.25 mm ²
HOUSING MATERIAL	Housing: nylon loaded with fiberglass - Lenses: methacrylate	
WEIGHT - cable output - (connector output)	- 110 g - (55 g)	

Connection with connector M12 (K)

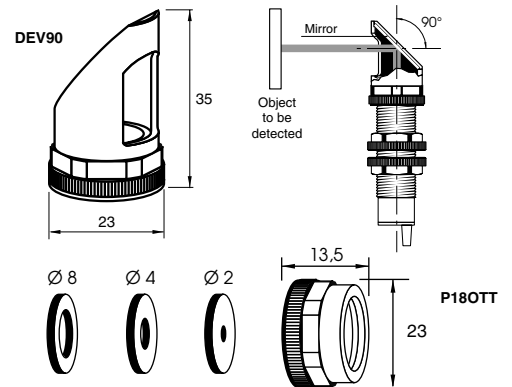
View of quadripole male connector.



CONTACTS CONFIGURATION

Available	Contacts numbers			
	1	2	3	4
(NO o NC)	+	-	-	NO/NC
Emitter	+	-	-	TEST

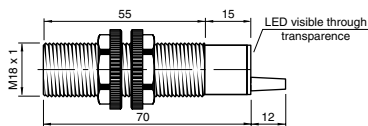
Accessories



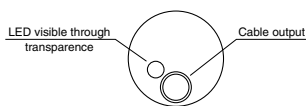
⁽¹⁾ Determined with halogen tungsten lamp 3000° K.
Note: for a proper use see norms at pages 7, 8, 9 and 10.

Dimensions (mm)

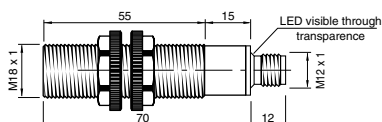
Configuration with cable



Configuration with cable - Back view



Configuration with connector K



Characteristic curves

THRU BEAM
Distance X (m)

