

PHOTOELECTRIC SENSORS

THRU BEAM

12÷30 V DC - NPN OR PNP OUTPUT

- 18mm tubolar in metal housing
- Operation LED aids installation
- Cable or M12 quick connect models
- Emitter with test input

INFRA

18 Series

IDENTIFICATION CODE

18	22	K	T	*	EX	(2)

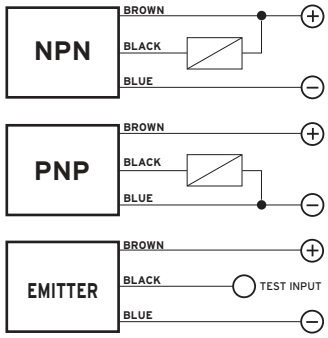
- SERIES 18
- NPN NO output — 22
- NPN NC output — 23
- PNP NO output — 24
- PNP NC output — 25
- Emitter — 21
- CONNECTOR OUTPUT M12
- TEST INPUT
- ATEX GROUP II CAT. 3D

* Option valid only for code 1821

AVAILABLE	RECEIVER	EMITTER
NOMINAL SWITCHING DISTANCE (Sn)	**25 m**	
TOLERANCE	+10/-10 %Sn	
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	2.5 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	> 10000 Lux (1)	
PROTECTION DEGREE	IP 67 (IP 65 for models with sensitivity adjustment)	
CABLE LENGTH	2 m	
CABLE SECTION	3 x 0.25 mm²	3/2 x 0.25 mm²
HOUSING MATERIAL	Housing: nickel plated brass - Lenses: methacrylate	
WEIGHT - cable output - (connector output)	- 110 g - (55 g)	

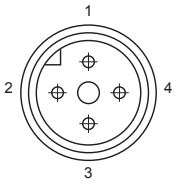
(1) Determined with halogen tungsten lamp 3000 °K.
(2) Device marking Ex II 3D IP67 T6X.
Note: for a proper use see norms at pages 18, 19, 20, 21 and 22.

WIRING DIAGRAMS



CONNECTION WITH CONNECTOR M12 (K)

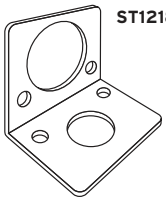
View of quadripole male connector.



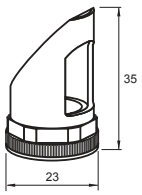
CONTACTS CONFIGURATION

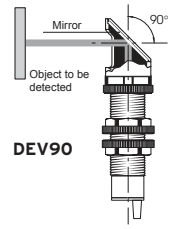
Available	Contacts numbers			
	1	2	3	4
(NO o NC)	+		-	NO/NC
Emitter	+		-	TEST

ACCESSORIES

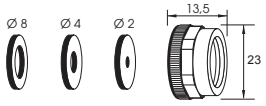


ST1218





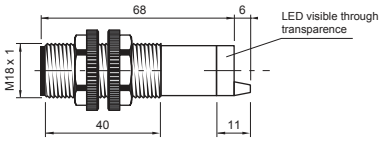
DEV90



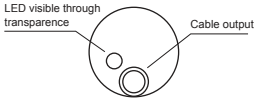
P180TT

DIMENSIONS (mm)

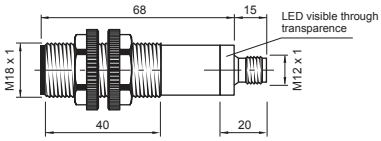
Configuration with cable



Configuration with cable - Back view



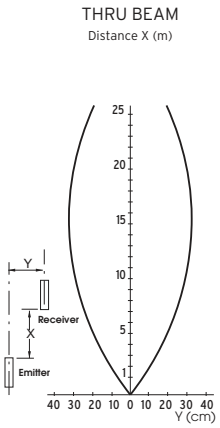
Configuration with connector K



Configuration with connector K Back view



CHARACTERISTIC CURVES



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