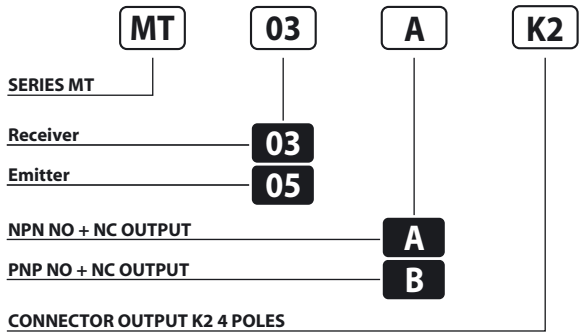
Thru Beam Photoelectric Sensors

PHOTOELECTRIC SENSORS IN MINIATURE HOUSING 12 ÷ 30 V DC NPN OR PNP OUTPUT

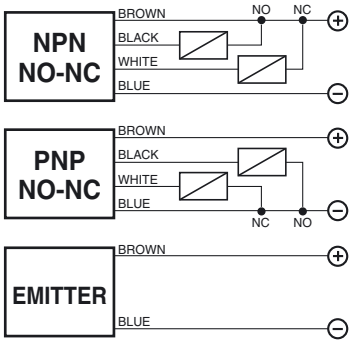
- ***Miniaturized housing***
- ***Sensitivity adjustment***
- ***Yellow LED - output indicator***
- ***Green LED - stability indicator***
- ***M8 connector output 4 poles***

MT Series

Identification code



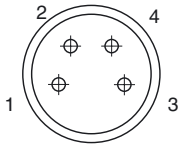
Wiring diagrams



AVAILABLE	RECEIVER	EMITTER
NOMINAL SWITCHING DISTANCE (Sn)	**0,1 m...6 m**	
HOUSING MATERIAL	ABS	
OPERATING VOLTAGE	10-30 VDC	
RESIDUAL RIPPLE	< 2Vpp	
ABSORPTION	< 35mA	
EMISSION	-	Infrared led 880 nm
MAX. OUTPUT CURRENT	100 mA	-
VOLTAGE DROP	< 2V	-
SWITCHING FREQUENCY	500 Hz	
RESPONSE TIME	1 mS	
SENSITIVITY ADJUSTMENT	Present	-
LED	Present	
LIGHT IMMUNITY	> 5000 Lux(1)	
PROTECTION DEGREE	IP 66	
TEMPERATURE LIMITS	-25/+55°C	
REVERSE POLARITY PROTECTION	Present	
SHORT CIRCUIT PROTECTION	Present	-
START UP DELAY	< 300 mS	
CONNECTION	M8 Connector (4 poles)	
WEIGHT	26 g	

(1) Determined with halogen tungsten lamp 3000° K.
Note: for a proper use see norms at pages 14, 15, 16, 17 and 18.

Connection with connector M8 (K2)



View of quadripole male connector

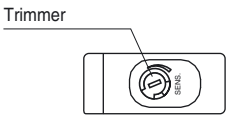
CONTACTS CONFIGURATION

Output	Contacts numbers			
	1	2	3	4
NPN/PNP NO+NC	+	NC	–	NO
EMITTER	+		–	

Sensitivity adjustment

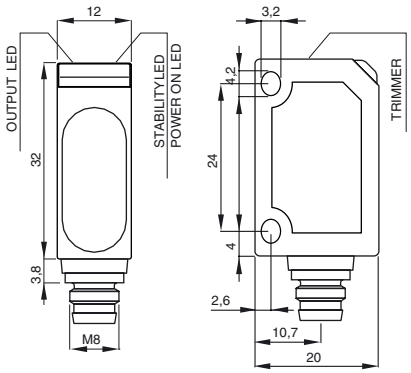
1) **SENSITIVITY INCREASE**
Screw the trimmer towards right towards position "+"

2) **SENSITIVITY DECREASE**
Screw the trimmer towards left towards position "–"

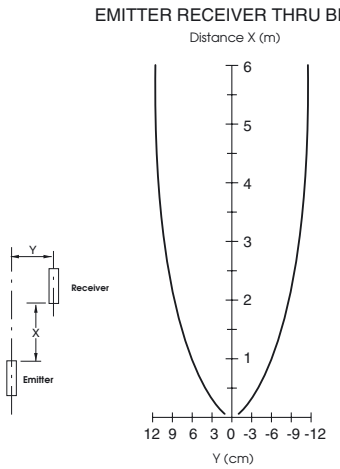


Note: the trimmer just needs one turn.

Dimensions (mm)



Characteristic curves



new