ANALOGUE SENSORS WITH LAMP EMISSION





- Incandescent lamp emission
- · Optic adjustment of the sensitivity
- 8, 28 and 50 mm lenses available
- Dark/light mode selector

TL10 SERIES

The **TL10** series is composed of analog contrast sensors with incandescent lamp emission with long life and easy interchangeability.

The sensors present a mechanical multi-turn optic adjuster for the sensitivity regulation, a switch for the dark/light operating mode selection and a red LED that signals the NPN transistor output activation.

Different models are available with 8, 28 and 50 mm lenses.

The sensors of the **TL10** series and relative accessories are available as spare parts. Contrast sensors of the **TL\mu** series are recommended for replacements, new applications and improved performances.

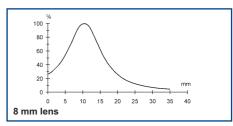


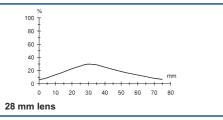


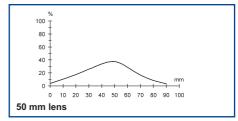
TECHNICAL DATA

Power supply:	. 10 30 Vdc, reverse polarity protection		
,	4.5 Vac for lamp emission		
Consumption:	·		
Light emission:			
Spot dimension:			
•	6 x 2.5 mm (28 mm lens)		
	8 x 2.5 mm (50 mm lens)		
Operating distance:	.8 12 mm (8 mm lens)		
	28 36 mm (28 mm lens)		
	46 54 mm (50 mm lens)		
Depth of field:	±2 mm (8 mm lens)		
	±4 mm (28 and 50 mm lenses)		
Setting:	. mechanical multi-turn actuator		
Indicators:	. red OUTPUT LED		
Output type:	. NPN		
Saturation voltage:	. 1.4 V max.		
Output current:	. 100 mA max., short-circuit protection		
Response time:	.50 μs max.		
Switching frequency:	. 10 KHz max.		
Operating mode :	.dark/light selectable		
Connection:	3 m Ø 5.5 mm cable		
	cable with Amphenol connector		
Electrical protection:	.class 1		
Mechanical protection:	. IP67		
Housing material:	. ZAMA		
Lens material:	. glass		
Weight:	. 600 g max.		
Operating temperature:	10 +55°C		
Storage temperature:	20 +70°C		
Fibre operating temperature:			
Reference standard:			
Certifications:	. €		

DETECTION DIAGRAMS







The operating distances indicate the detection distance with excess gain 2.





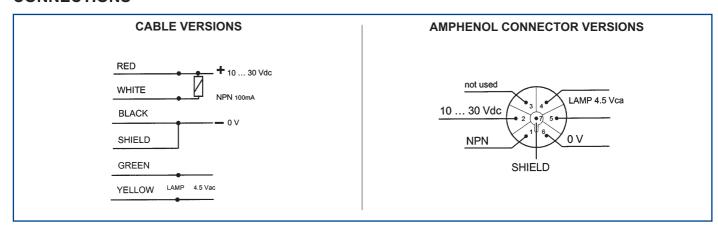




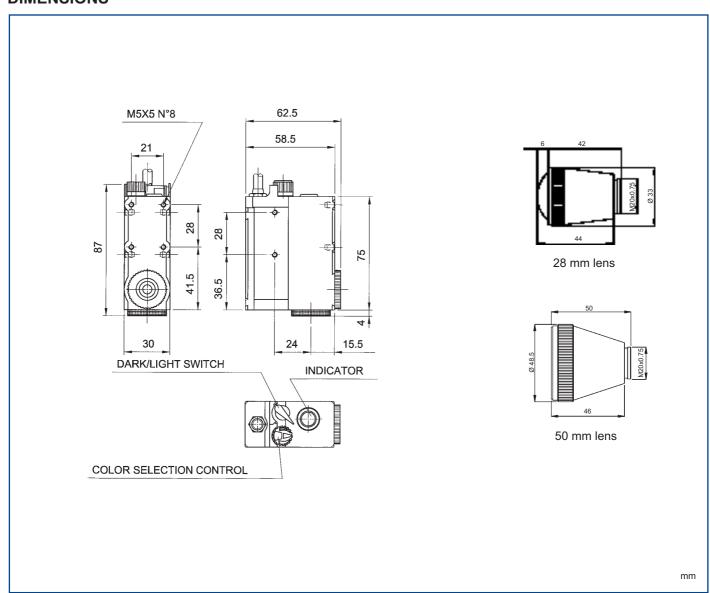




CONNECTIONS



DIMENSIONS





MODEL SELECTION AND ORDER INFORMATION

MODEL	OPTICS	SPOT	CONNECTION	OUTPUT	CODE N°
TL10-011	8 mm	vertical	cable	NPN	S917660100
TL10-012	8 mm	vertical	Amphenol connector	NPN	S917660105
TL10-011L	8 mm	horizontal	cable	NPN	S917660102
TL10-021	28 mm	vertical	cable	NPN	S917660101
TL10-031	50 mm	vertical	cable	NPN	S917660103

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	CODE N°
010066	6V/6W lamp vertical spot (standard vers.)	S2600030
010067	6V/6W lamp horizontal spot (90° vers.)	S2610300

Please refer also to Sensor Accessories

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HEADQUARTERS

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CONTRAST SENSORS

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