OEM AUTOMATIC

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DATASENSING

DATASENSING - TLU - CONTRAST SENSORS

TLU-111
964401080 Print Reg Red/Green Vert Spot PNP 2m
Cable

- Red/green or white LED
- Touch to teach
- Cable or rotatable M12 5-pole connector
- 20KHz switching frequency

PRODUCT DESCRIPTION

The TLμ contrast sensor series offers solutions for all detection applications of register mark. The microprocessor-based setting can be either 'Teach-in' using two push-buttons or 'Remote' by cable. The LED emission can be red/green with automatic selection, or white offering the possibility of operating on all contrasts.

Models with interchangeable 9mm or 18mm lenses are available, and 22, 28 and 50mm lenses are supplied as accessories. Many different fibre optic models are available. The output is PNP or NPN according to the selected model, but can always be selected using an internal switch. An analogue output proportional to the received light is also present.

Features & Benefits:
·Red/Green or White emission: high detection reliability and resolution
·Teach-in push-button: fast and easy setting
·20KHz switching frequency: precise and repeatability reading
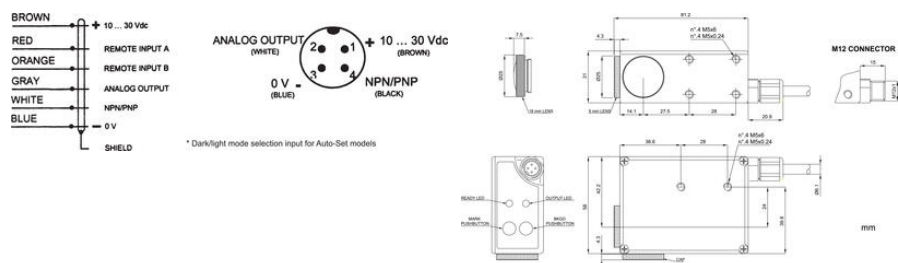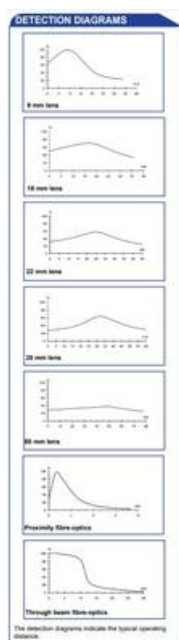·Cable or rotatable M12 5-pole connector: adaptability to the mechanical part of the plant

Applications:
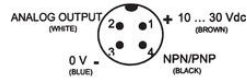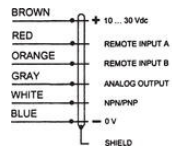·Packaging lines
·Paper and Printing machines
·Automatic filling machines

TECHNICAL DATA

Approvals	CE, UL
Cable length	3000 mm
Distance max	12 mm
Distance min	6 mm
Electrical connection	Pre-cabled 3m
Function	Dark on / Light on

IP class	IP67
LED indicator	Yes
Lens material	Glass
Light type	Green LED, Red LED
Material of body	Zinc
Output	PNP
Output current max	0.2 A
Photocell technology	Contrast
Power consumption max	0.08 A
Reaction time	0.05 ms
Storage temperature max	70 °C
Storage temperature min	-20 °C
Supply voltage	10-30 V DC
Temperature operational max	55 °C
Temperature operational min	-10 °C
Type of light	LED
Weight	450 g

6 mm lens

16 mm lens

22 mm lens

28 mm lens

56 mm lens

Proximity fibre-optics

Through beam fibre-optics

The detection diagrams indicate the typical operating distance.

BROWN — + 10 ... 30 Vdc
RED — REMOTE INPUT A
ORANGE — REMOTE INPUT B
GRAY — ANALOG OUTPUT
WHITE — NPN/PNP
BLUE — - 0 V
— SHIELD

ANALOG OUTPUT (WHITE) + 10 ... 30 Vdc (BROWN)
0 V (BLUE) NPN/PNP (BLACK)

2 1
3 4
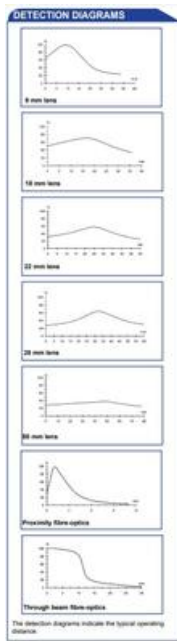
* Dark/light mode selection input for Auto-Set models

M12 CONNECTOR

READY LED   OUTPUT LED
MARK   BASIC
PUSHBUTTON   PUSHBUTTON

mm