

## DATASENSING TL46 CONTRAST SENSOR WITH RGB LED

Now available in IO-Link

TL46-W-815  
954601000 Contrast Sensor Basic Vertical Spot  
PNP/NPN

- Wide spectrum with RGB LED
- Color mode enhanced model (TL46-WE)
- Fastest and accurate low jitter model (TL46-WJ)
- PNP/NPN output, now available in IO-Link
- Rotatable 5 position M12 connector



### PRODUCT DESCRIPTION

The TL46 product range offers the best performance and most complete selection of contrast sensors for print registration mark detection.

The market leading sensor is characterised by excellent performance due to an automatic selection of RGB LED emission, low response time and high switching speed.

The IP67 metal case with standard "TL" dimensions and fixing holes offers the best protection and installation in all applications.

The sensor is available in 3 different versions, basic, standard and enhanced and the sensing range can be increased with its selection of lenses.

#### Features & Benefits:

- RGB emission: high detection reliability and resolution
- Teach-in push-buttons for fast and easy setting.
- 30KHz switching frequency.
- Rotatable M12 5-pole connector.
- IP67 metal housing.

Applications:

- Packaging lines
- Paper and Printing machines
- Automatic filling machines

## TECHNICAL DATA

Approvals	CE, UL
Dimension (mm)	31 x 81 x 58
Distance max	12 mm
Distance min	6 mm
Electrical connection	M12 5-pole connector
Frequency	15000 Hz
Function	Dark on / Light on
IP class	IP67
LED indicator	Yes
Lens material	Glass
Light type	Green LED, Red LED, Blue LED
Material of body	Aluminium
Output	PNP, NPN
Output current max	0.1 A
Photocell technology	Contrast
Power consumption max	0.05 A
Reaction time	0.033 ms
Sensitivity setting	Yes
Sensitivity setting	Teach in
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	170 g

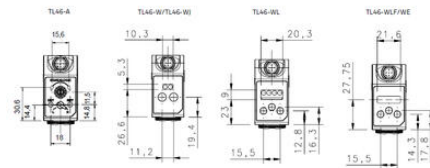
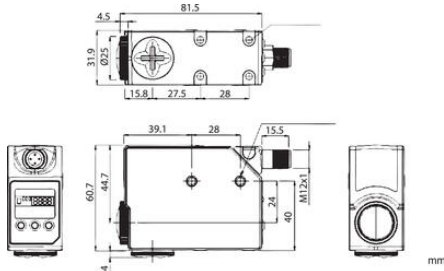
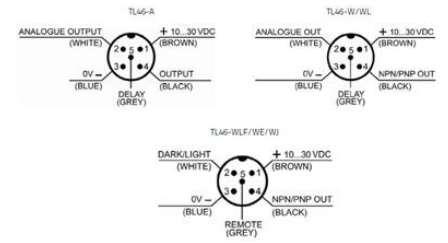


# INDICATORS AND SETTINGS

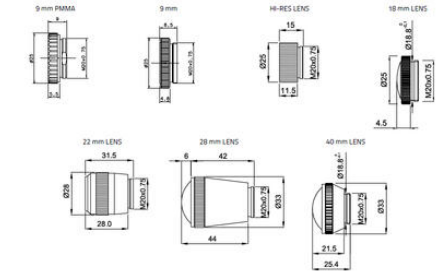


- yellow OUTPUT LED
- green READY LED
- orange DELAY LED
- orange KEYLOCK LED
- Bargraph
- 4+/- push-buttons
- SET push-button
- Display
- MARK push-button
- BACKD push-button
- Light/Dark Switch
- Orange Indicators Arrows
- Sensitivity Adjustment Knob

# CONNECTIONS



# ACCESSORIES

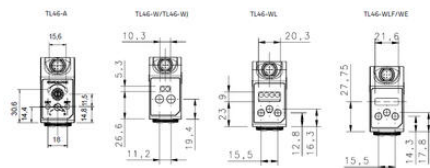
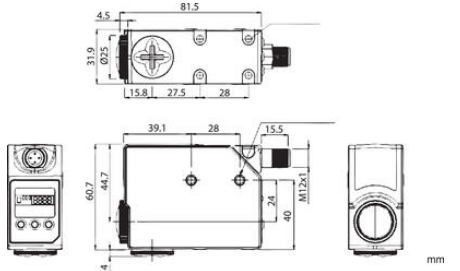
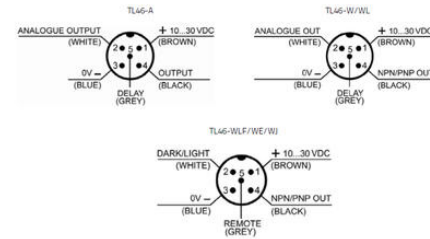


# INDICATORS AND SETTINGS



- yellow OUTPUT LED
- green READY LED
- orange DELAY LED
- orange KEYLOCK LED
- Bargraph
- 4+/- push-buttons
- SET push-button
- Display
- MARK push-button
- BACKD push-button
- Light/Dark Switch
- Orange Indicators Arrows
- Sensitivity Adjustment Knob

# CONNECTIONS



# ACCESSORIES

