

## DATALOGIC 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.

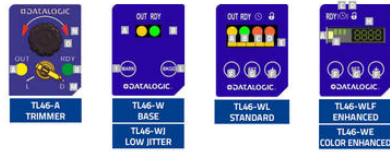
Applications:

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

## TECHNICAL DATA

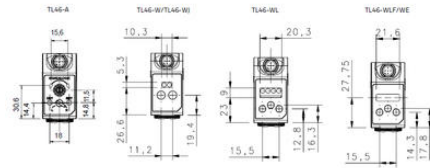
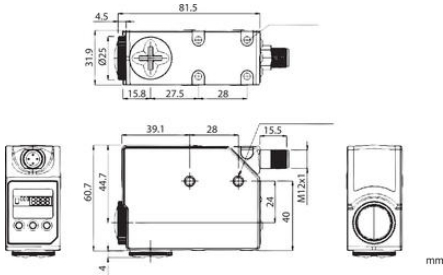
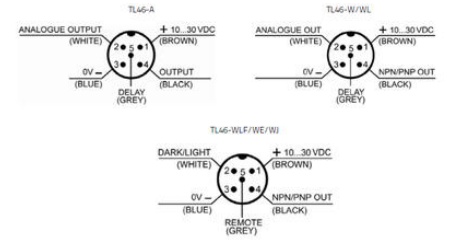
|                             |                              |
|-----------------------------|------------------------------|
| Approvals                   | CE, UL                       |
| Dimension (mm)              | 31 x 81 x 58                 |
| Distance max                | 12 mm                        |
| 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
- ☐ +/- push-buttons
- ☐ SET push-button
- ☐ Display
- ☐ MMRX push-button
- ☐ BKGD push-button
- ☐ Light/Dark Switch
- ☐ Orange Indicators Arrows
- ☐ Sensitivity Adjustment Knob

# CONNECTIONS



# ACCESSORIES

