



TL46-W
Contrast sensor

INSTRUCTION MANUAL

CONTROLS

OUT LED (yellow)
The out LED indicates the output status.

READY LED (green)
During functioning, the green LED permanently ON indicates a normal operating condition; fast blinking indicates an output overload condition.

MARK PUSH-BUTTON
The mark detection procedure is activated by pressing MARK push-button.

BGKD PUSH-BUTTON
The background detection procedure is activated by pressing BGKD push-button.

See the "SETTING" paragraph for setup procedure indications.

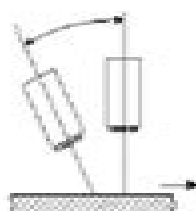
INSTALLATION

The sensor can be positioned by means of the two Ø4.7mm housing's holes using or threaded M3 holes with 4mm max. depth.

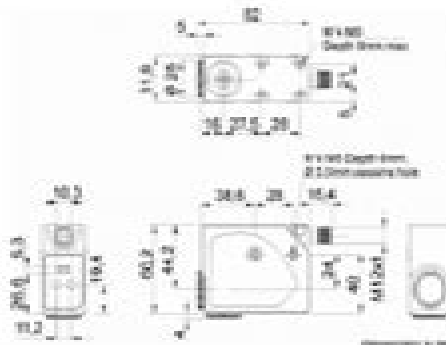
Warning: the use of excessively long wires can damage the product.
The connector can be oriented at five different positions, rotating the block.
The position chosen is guaranteed by a mechanical blocking system.
The rotation can be carried out even after sensor installation as the connector block is completely self-contained inside the housing.



The operating distance is measured starting from the lens front face.
The reading direction can be changed inserting the cap and lens.
Mark detection on a reflective surface is improved adjusting the beam direction to 0° ... 20° from surface axis.



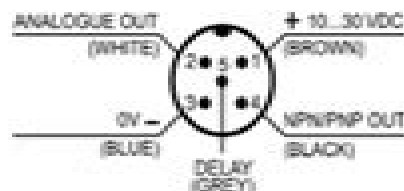
DIMENSIONS



TECHNICAL DATA

Power supply	10...30 VDC limit values
Power	2 W max.
Current consumption (output current excluded)	50 mA max. @ 24VDC
Output	1 PNP/NPN adjustable output 30 VDC max. (short-circuit protection) (PNP is the default configuration)
Output current	100 mA max.
Output maximum voltage	2.2 V
Response time	50 µs
Switching frequency	10 kHz
Analogue output	0 ... 1 V
Analogue output impedance	2.2 kΩ
Delay	0 ... 20 ms selectable via delay input
Dark light selection	automatic
Indicators	OUT LED (yellow) - READY LED (green)
Operating temperature	-10 ... 55 °C
Storage temperature	-30 ... 70 °C
Electric shock protection	double insulation II
Operating distance	8 mm
Depth of field	2 (mm)
Minimum spot diameter	1.50 mm
Emission type	blue 465 nm - green 525 nm - red 630 nm with automatic selection
Anti-reflection rejection	according to EN ISO 15425-2
Vibrations	0.5 mm amplitude / 10 ... 55 Hz frequency for each axis (EN ISO 2-2)
Shock resistance	11 ms 10G of 1 shock for each axis (EN ISO 2-2)
Housing material	aluminium
Lens material	PMMA
Mechanical protection	IP67
Connections	M12 5-pin connector
Weight	174 g (max.)

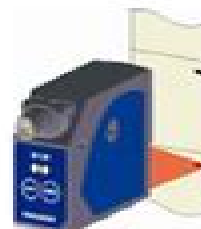
CONNECTIONS



SETTING

DETECTION MARK-BACKGROUND

- Position mark in front of the sensor light spot and press MARK push-button until the READY LED (green) turns OFF.
- The sensor detects the mark alternating the red, green and blue emissions.
- Avoid mark movements during this phase.



- Position the background in front of the sensor light spot and press BGKD push-button. The sensor detects the mark alternating the red, green and blue emissions. Avoid background movements during this phase.



The DARKLIGHT operating mode is automatically selected by the sensor.
Dark mark - light background = dark mode; light mark - dark background = light mode.

If the READY LED is permanently ON, the detection is successful.
If the LED blinks slowly, the detection has failed due to insufficient contrast.
The sensor returns to the previous setting by pressing MARK or BGKD push-button.
Repeat the procedure from the beginning.

PNP/NPN OUTPUT SETTING

- The signal output can be PNP or NPN configured.
- To change output press MARK and BGKD contemporaneously for 2 sec.

The setting is signalled by the status change of the READY LED.
If the READY LED turns off after a 1 sec. minimum, release push-buttons only after the re-actuation of the LED (2 sec).

- The output setting is signalled by the READY LED. Releasing the push-buttons the READY LED blinks once if the PNP output is set. Similar twice if the NPN output is set.

1 sec. pressure of MARK and BGKD	10 sec. pressure of MARK and BGKD	Release of push-buttons

OVERLOAD

The signal output overload is signalled by the rapid blinking of the READY LED.

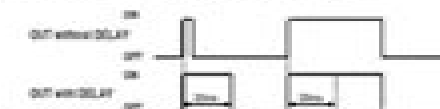
ACCESSORY FUNCTIONS

ANALOGUE output

The analogue output supplies a voltage proportional to the signal received by the sensor. The voltage supplied is 0 ... 1 V.
The maximum voltage is obtained with reflective objects, on 80% while the voltage is equal to 1.2 V.

DELAY SETTING

The DELAY interval is 20ms, the minimum duration of the active output allowing the slower interfacing systems to detect shorter pulses.



Delay activation

- Connect Delay signal (grey wire) to power supply.

Delay deactivation

- Connect Delay signal (grey wire) to 0V or leave unconnected.

The sensors are NOT safety devices, and are NOT NOT to be used in the safety control of the machines where installed.

DECLARATION OF CONFORMITY

We, DataLogic, as manufacturer, accept full responsibility for these products and confirm that they comply with the CE mark requirements.

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Datalogic Vipernet Manual

RJ Alexander



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