



# TL50

## 954651000

**TL50-W-815**  
TL/LD LENS FOCUSING AT 9 MM

## OVERVIEW

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	9mm
Spot dimension	1,5 x 5mm
Sensitivity adjustment	Teach-in

### Application

Function Principle	Contrast mark detection
Description	Standard case - vertical spot
Optic position	axial
Functions	Contrast mark detection

## Outputs

Output type	NPN/PNP Dark/Light sel.
Output Function	Dark/Light sel.
Switching frequency	15 kHz
Response time	0,033 (15kHz)

## Electrical data

Operating Voltage	10...30VDC
No-Load supply current	$\leq 50\text{mA}$
Output voltage drop	$\leq 2\text{V}@I_{\text{load}}=100\text{mA}$
LED indicators	Yellow (output state) Green (Ready) Orange (delay)
Short-circuit protection	YES
Reverse Polarity Protection	Yes
Emission	LED RGB
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes
Insulation resistance	$>20\text{ M}\Omega$ 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing

## Mechanical data

Dimensions	31x53x80
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Housing Material	Plastic - ABS / PMMA
Connections	M12 plug
Active Head Material	Glass
Storage temperature	- 25°C...+70°C
Material	
Diameter/Dimension	Cubic

#### Test/Approvals

Approvals	CE cULus
Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)

#### Generical Data

Dimensions	31x53x80
Operating Temperature	- 10°C...+ 55°C
Mechanical Protection	IP67

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