



# TLU

## 964401000

TL $\mu$ -011

ALL REGISTRATION MARK DETECTION APPLICATIONS

## OVERVIEW

- Teach-in, Remote settings
- Red/green or white LED emission
- Various interchangeable lenses and fiber-optic models
- Metal housing with orientable optics and connector

## TECHNICAL FEATURES

### Detection properties

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

Function Principle	Contrast mark detection
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Description	Standard case - vertical spot
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Optic position	Radial 90°
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Functions	Contrast mark detection
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#### Outputs

Output type	NPN L/D Selectable
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Output Function	L/D Selectable
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Response time	0,05 (10kHz)
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#### Electrical data

Operating Voltage	10...30VDC
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No-Load supply current	≤ 80mA
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Output voltage drop	≤1V
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LED indicators	red OUTPUT greenREADY
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Short-circuit protection	YES
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Reverse Polarity Protection	Yes
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Emission	LED RGB
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Interference to external light	according to EN 60947-5-2 : 2020
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Impulsive Overvoltage Protection	Yes
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#### Mechanical data

Dimensions	31x58x82
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Housing Material	Metal - Zamak
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Connections	2m cable
Active Head Material	Glass
Storage temperature	- 20°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	31x58x82
Operating Temperature	-10°C ... 55°C
Mechanical Protection	IP67

## **Datasensing S.r.l.**

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
info@datasensing.com

**date of  
printing**  
11/04/2025  
03:38:03