



TLU

954151380

TL μ -545

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	3 10mm
Spot dimension	Ø 3 mm
Sensitivity adjustment	Teach-in

Application

Function Principle	Contrast mark detection
Description	Standard case - optic fiber
Optic position	axial

Functions	Contrast mark detection
-----------	-------------------------

Outputs

Output type	PNP L/D selectable
-------------	--------------------

Output Function	L/D selectable
-----------------	----------------

Response time	0,025 (20 kHz)
---------------	----------------

Electrical data

Operating Voltage	10...30VDC
-------------------	------------

No-Load supply current	$\leq 80\text{mA}$
------------------------	--------------------

Output voltage drop	$\leq 2\text{V}$
---------------------	------------------

LED indicators	red OUTPUT greenREADY
----------------	-----------------------

Short-circuit protection	YES
--------------------------	-----

Reverse Polarity Protection	Yes
-----------------------------	-----

Emission	LED White
----------	-----------

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	31x58x82
Material	
Housing material	Metal - Zamak
Connections	M12 plug
Active Head Material	Glass
Storage temperature	- 20°C...+70°C
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**
15/06/2026
20:28:22