



# LD46

955201000

LD46-UL-715

LUMINESCENCE SENSOR LINE IN STANDARD METAL HOUSING

## OVERVIEW

- UV high power LED emission
- High sensitivity on fluorescent marks
- 10 - 50 mm detection distance
- 2 kHz switching frequency
- NPN/PNP and 0-5 V analog outputs

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	20mm
--------------------------	------

Sensitivity adjustment	Teach-in
------------------------	----------

### Application

Function Principle	Luminescent mark detection
--------------------	----------------------------

Description	Standard case - vertical spot
-------------	-------------------------------

Optic position	axial
----------------	-------

Functions	Luminescent mark detection
-----------	----------------------------

#### Outputs

Output type	NPN/PNP - Dark/Light sel., 0-5 V
-------------	----------------------------------

Response time	0,25
---------------	------

#### Electrical data

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

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

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

Emission	LED UV
----------	--------

Interference to external light	according to EN 60947-5-2 : 2020
--------------------------------	----------------------------------

Impulsive Overvoltage Protection	Yes
----------------------------------	-----

Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
-----------------------	---

Contact resistance	500 Vac 1 min., between electronics and housing
--------------------	---

#### Mechanical data

Dimensions	32x60x82
------------	----------

Housing Material	Metal - Aluminium / Glass
------------------	---------------------------

Connections	M12 plug
-------------	----------

Active Head Material	Glass
----------------------	-------

Storage temperature	- 25°C...+70°C
---------------------	----------------

Material

#### 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

32x60x82

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](mailto:info@datasensing.com)

**date of  
printing**  
04/04/2025  
14:24:58