

LD46

DATALOGIC

LUMINESCENCE SENSOR
LINE IN STANDARD METAL
HOUSING

- 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

APPLICATIONS

- Packaging and labeling machinery
- Food, Cosmetic and Pharmaceutical
- Ceramic tiles selection and sorting



(*) ATEX II 3DG

LD46

Luminescence sensor

10...20 mm (LD46-UL-715)

20...40 mm (LD46-UL-755)

30...50 mm (LD46-UL-735)

2x8 mm at 10 mm

3x11 mm at 24 mm

4x15 mm at 50 mm

Spot dimension**Switching frequency**

2 kHz

Response Time

250 µs

Light emission

UV-HP LED

Setting

push buttons

Power supply

15...30 V

Vdc

Vac

Vac/dc

Output

PNP

NPN

NPN/PNP

relay

other

•

0...5 V Analog output

cable

connector

pig-tail

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Approximate dimensions (mm)

31x81x58

Housing material

aluminium

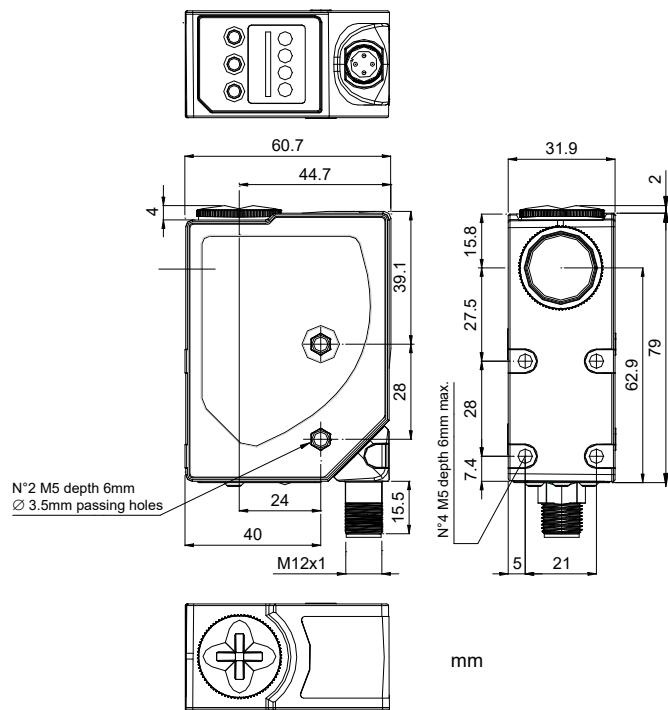
Mechanical protection

IP67

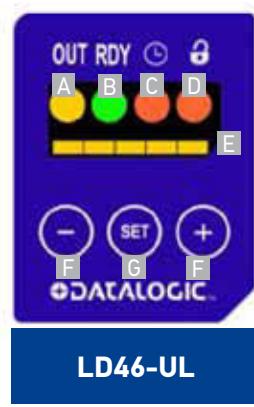
TECHNICAL DATA

Power supply	15 ... 30 Vdc (limit values)
Ripple	2 Vpp max.
Consumption (output current excluded)	50 mA max. at 24 Vdc
Light emission	UV LED 375 nm
Setting	SET push-buttons
 Indicators	
Output	yellow OUTPUT LED
Output current	green READY LED
Saturation voltage	orange DELAY LED and KEYLOCK LED
Response time	5-segment bargraph
Switching frequency	
Connection	PNP/NPN; analog output
Dielectric strength	100 mA max.
Insulating resistance	2 V max.
Electrical protection	>20 MΩ, 500 Vdc between electronics and housing
Mechanical protection	class 2, double insulation
Ambient light rejection	IP67
Vibrations	according to EN 60947-5-2
Shock resistance	0,5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
 Minimum spot dimension	11 ms (30 G) 6 shock for every axis (EN60068-2-27)
 Housing material	2 x 8 mm at 10 mm (mod. LD46-UL-715)
Lens material	3x11 mm at 24 mm (mod. LD46-UL-755)
Operating temperature	4x15 mm at 50 mm (mod. LD46-UL-735)
Storage temperature	aluminium
Weight	glass
	-10 ... 55 °C
	-20 ... 70 °C
	180 g max.

DIMENSIONS



INDICATORS AND SETTINGS

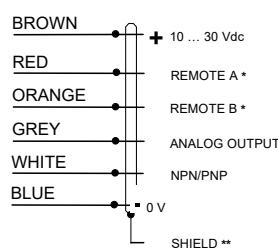


- A** yellow OUTPUT LED
- B** green READY LED
- C** orange DELAY LED
- D** orange KEYLOCK LED
- E** Bargraph
- F** +/- push-buttons
- G** SET push-button

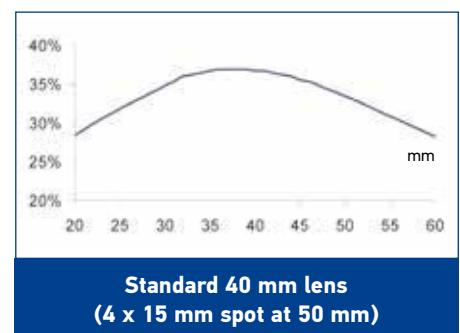
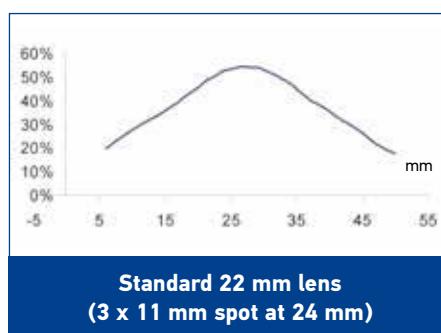
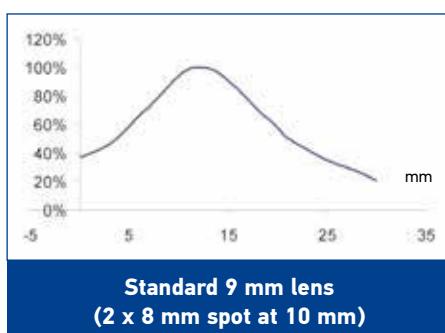
LD46-UL

CONNECTIONS

M12 CONNECTOR



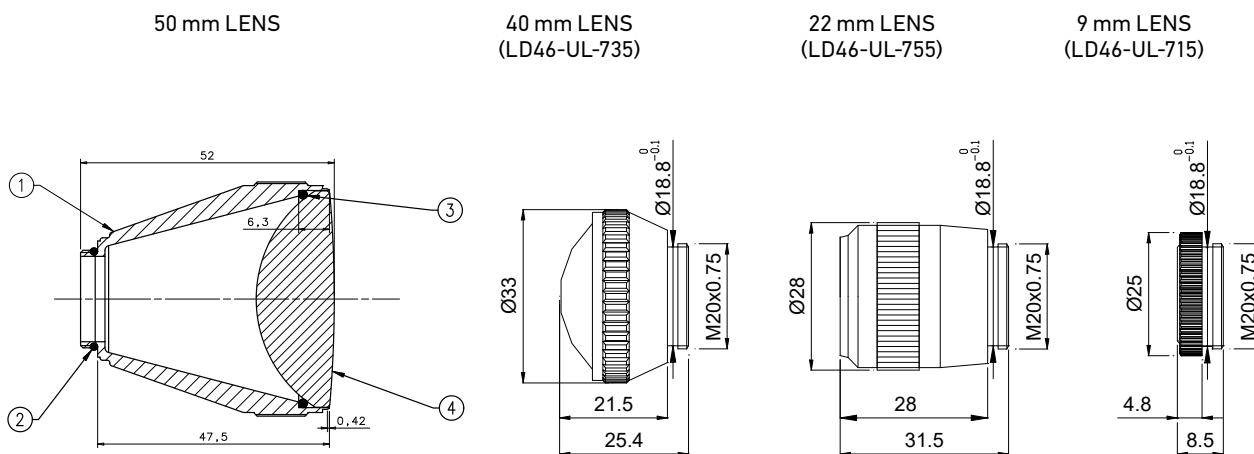
DETECTION DIAGRAMS



MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No.
Luminescence sensor	10-20 mm Vertical spot	M12 Connector	NPN/PNP	LD46-UL-715	955201000
	20-40 mm Vertical spot			LD46-UL-755	955201010
	30-50 mm Vertical spot			LD46-UL-735	955201020

ACCESSORIES



MODEL	DESCRIPTION	ORDER No.
Lens No.9	glass lens with 9 mm focus	95ACC2670
Lens No.22	glass lens with 22 mm focus	95ACC1100
Lens No.40	glass lens with 40 mm focus	95ACC2740
Lens No.50	glass lens with 50 mm focus	S73030511

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M12 Connector	5-pole, grey, P.V.C.	3 m	CS-A1-03-G-03	95ACC2110
		5 m	CS-A1-03-G-05	95ACC2120
		10 m	CS-A1-03-G-10	95ACC2140
	5-pole, U.L., black, P.V.C.	3 m	CS-A1-03-U-03	95ASE1170
		5 m	CS-A1-03-U-05	95ASE1180
		10 m	CS-A1-03-U-10	95ASE1190
		15 m	CS-A1-03-U-15	95ASE1200
		25 m	CS-A1-03-U-25	95ASE1210
		50 m	CS-A1-03-U-50	95A252700

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