### Luminescence Sensors - LD46 \*DATALOGIC





# **LD46**

### 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



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











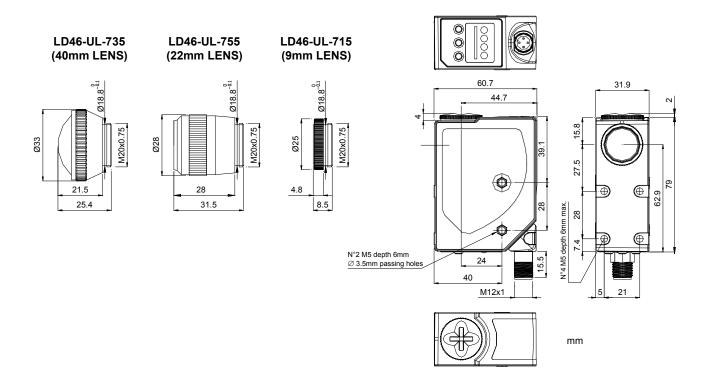
/\*\ ΔΤΕΧ ΤΙ 3DG

		(*) ATEX II 3DG
LD46		
Luminescence sensor		1020 mm (LD46-UL-715)
		2040 mm (LD46-UL-755)
		3050 mm (LD46-UL-735)
Spot dimension		2x8 mm at 10 mm
		3x11 mm at 24 mm
		4x15 mm at 50 mm
Switching frequency		2 kHz
Response Time		250 µs
Light emission		UV-HP LED
Setting		push buttons
	Vdc	1530 V
Power supply	Vac	
	Vac/dc	
	PNP	
	NPN	
Output	NPN/PNP	•
	relay	
	other	05 V Analog output
	cable	
Connection	connector	•
	pig-tail	
Approximate dimensions (mm)		31x81x58
Housing material		aluminium
Mechanical protection		IP67

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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	yellow OUTPUT LED green READY LED orange DELAY LED and KEYLOCK LED 5-segment bargraph			
Output	PNP/NPN; analog output			
Output current	100 mA max.			
Saturation voltage	2 V max.			
Response time	250 µs			
Switching frequency	2 kHz			
Connection	M12 5-pole connector			
Dielectric strength	500 Vac, 1 min between electronics and housing			
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing			
Electrical protection	class 2, double insulation			
Mechanical protection	IP67			
Ambient light rejection	according to EN 60947-5-2			
Vibrations	0,5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)			
Shock resistance	11 ms (30 G) 6 shock for every axis (EN60068-2-27)			
2 x 8 mm at 10 mm (mod. LD46-UL-715)  Minimum spot dimension  3x11 mm at 24 mm (mod. LD46-UL-755)  4x15 mm at 50 mm (mod. LD46-UL-735)				
Housing material	aluminium			
Lens material	glass			
Operating temperature	-10 55 °C			
Storage temperature	-20 70 °C			
Weight	180 g max.			

#### **DIMENSIONS**



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#### INDICATORS AND SETTINGS

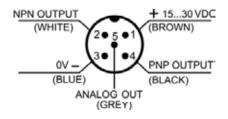


- yellow OUTPUT LED
- B green READY LED
- orange DELAY LED
- orange KEYLOCK LED
- E Bargraph

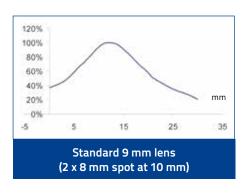
- F +/- push-buttons
- G SET push-button

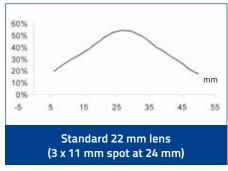
#### **CONNECTIONS**

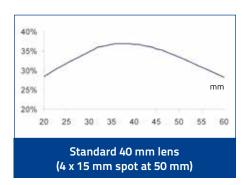
#### M12 CONNECTOR



#### **DETECTION DIAGRAMS**





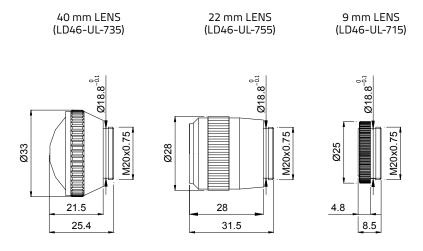


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#### MODEL SELECTION AND ORDER INFORMATION

	OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No.
Luminescence		10-20 mm Vertical spot	M12 Connector	NPN/PNP	LD46-UL-715	955201000
	Luminescence sensor	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

#### **CABLES**

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
	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
Axial M12 Connector		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