

Multi-UV Dome Light

365 nm, 395 nm, 405 nm, white light, 80 mm

LMDX103

Part Number



- All-in-one UV solution
- Homogeneous dome effect
- Integrated controller for easy setup
- Powerful flash mode

wenglor dome lights from the LMDXxx3 series are ideal for homogeneous illumination of glossy parts, demanding surfaces and fluorescent materials. The multi-UV dome light allows users to test multiple wavelengths (UV365, UV395, UV405 and white light) and select the most effective option. Operator safety is maximized by blocking direct UV radiation through the dome and an integrated filter. The dome light can be operated in continuous mode (white light only) or synchronized in strobe mode (UV and white light).

Technical Data

Optical Data

Light Source	UV white light
Wavelength spectrum	365 nm, 395 nm, 405 nm, white light
Risk Group (EN 62471)	2

Environmental conditions

Temperature Range	-10...40 °C
Storage temperature	-20...60 °C
Atmospheric humidity	< 80%, non-condensing

Electrical Data

Supply Voltage	21,6...26,4 V DC
Power	1,8 W
Peak power	18 W
Current Consumption Continuous Mode (Ub = 24 V)	0,3 A
Current consumption flash mode OverDrive (operating voltage = 24 V)	0,75 A
Flash duration (max.)	10 ms
Duty cycle (max.)	< 0,1
Rise time	15 µs
Fall time	10 µs
Input signal	NPN
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Dimming	0...10 V ± 100...40%

Mechanical Data

Housing Material	Aluminum, anodised
Housing Material	Glass
Housing Material	Plastic, ABS
Housing Material	Plastic, PMMA
Degree of Protection	IP65
UL Enclosure Type	1
Connection	M12 × 1; 5-pin
Max. cable length	5 m
Camera aperture inner diameter	80 mm

Function

Operating modes	Continuous, Strobe
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Connection Diagram No.

009

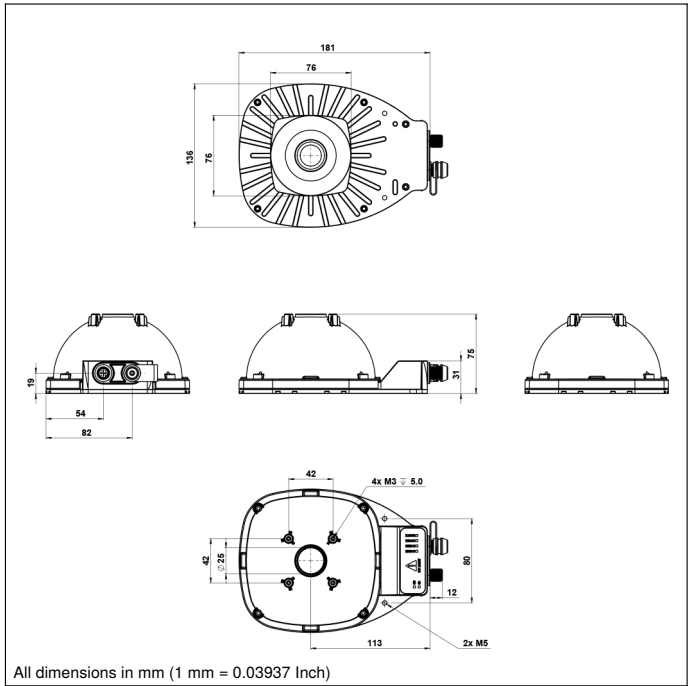
Suitable Mounting Technology No.

927

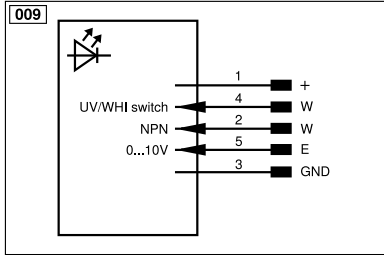
Complementary Products

Connection cables

ZDNG001 PNP-NPN converter



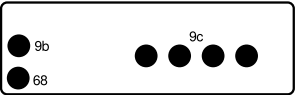
All dimensions in mm (1 mm = 0.03937 Inch)



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	ENAR5422	Encoder A/Ä (TTL)
-	Supply Voltage 0 V	nc	Not connected	ENBR5422	Encoder B/ß (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	ENA	Encoder A
A	Switching Output (NO)	Ü	Test Input inverted	ENb	Encoder B
Ä	Switching Output (NC)	W	Trigger Input	AMIN	Digital output MIN
V	Contamination/Error Output (NO)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
Û	Contamination/Error Output (NC)	O	Analog Output	AOK	Digital output OK
E	Input (analog or digital)	O-	Ground for the Analog Output	SY In	Synchronization In
T	Teach Input	BZ	Block Discharge	SY OUT	Synchronization OUT
R	Reset input	Amv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization		
RDY	Ready	E+	Receiver-Line	BK	Black
GND	Ground	S+	Emitter-Line	BN	Brown
CL	Clock	±	Grounding	RD	Red
E/A	Output/Input programmable	SnR	Switching Distance Reduction	OG	Orange
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path	YE	Yellow
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	GN	Green
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	BU	Blue
QSSD	Safety Output	La	Emitted Light disengageable	VT	Violet
Signal	Signal Output	Mag	Magnet activation	GY	Grey
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	WH	White
ENo RS422	Encoder 0-pulse 0/1 (TTL)	EDM	Contact Monitoring	PK	Pink
				GNYE	Green/Yellow

Ctrl. Panel

T22



68 = Power LED
9b = Strobe Mode Indicator
9c = Color selection display