

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

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 (U _b = 24 V)	0,3 A
Current consumption flash mode overdrive (operating voltage = 24 V)	0,75 A
Flash Duration	10 ms
Duty Cycle	< 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
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**

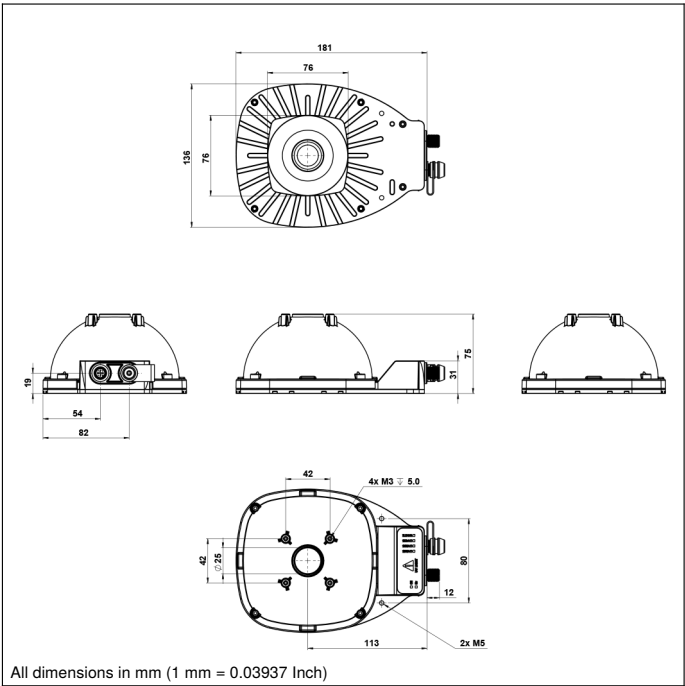
Control Panel No. **T22**

Suitable Mounting Technology No. **927**

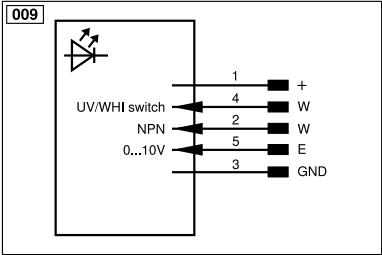
Complementary Products

Connection cables

ZDNG001 PNP-NPN converter



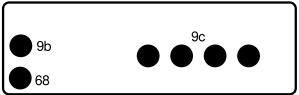
All dimensions in mm (1 mm = 0.03937 Inch)



Legend					
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted	ENb	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
Ä	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	O	Analog Output	AOK	Digital output OK
Ÿ	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
T	Teach 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	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	±	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
BL_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
ENo RS422	Encoder 0-pulse 0/Ü (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENARIS422	Encoder A/A (TTL)		

Ctrl. Panel

T22



68 = supply voltage indicator
9b = Strobe Mode Indicator