Dome Light White infrared light, 130 mm

LMDX202

Part Number



- 4 sectors selectable
- **Bicolor**
- Highly modular illumination platform
- No external control required
- **Overdrive**

• Quick and easy replacement of accessories wenglor LMDX series dome lights are ideally suited for homogeneous illumination (lighting with a cloudy sky) of glossy parts and demanding surfaces, such as bent metal. The dome is designed to shield the environment and efficiently capture all the light emitted by the ringshaped light source. This makes it the ideal product for applications with exposure times as low as 100 µs. The product can be operated in continuous mode or synchronized with the Machine Vision Camera in strobe mode or strobe mode with increased intensity (overdrive).

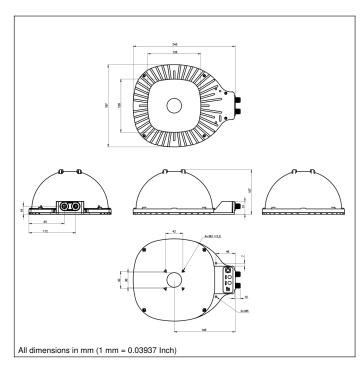
Each dome light can be controlled via a lockable control panel and a standardized 5-pin M12 connector for power and strobe signals. The control panel can be disabled via the secondary connection, which can also

Technical Data

Teelinical Bata				
Optical Data				
Light Source	White-infrared light			
Color temperature	5000 K			
Wavelength	860 nm			
Risk Group (EN 62471)	1			
White light output	90200 Lux			
Infrared light output	48 W/m ²			
Measuring point distance	20 mm			
Electrical Data				
Supply Voltage	21,626,4 V DC			
Power	12,96 W			
Peak power	61,92 W			
Current Consumption Continuous Mode (Ub = 24 V)	0,54 A			
Current consumption strobe mode (Ub = 24 V)	2,58 A			
Flash Duration	2 ms			
Duty Cycle	< 0,1			
Rise time	15 μs			
Fall time	10 <i>μ</i> s			
Input signal	PNP/NPN			
Temperature Range	-1040 °C			
Storage temperature	-2060 °C			
Short Circuit Protection	yes			
Reverse Polarity Protection	yes			
Overload Protection	yes			
Protection Class	III			
Dimming	010 V ≙ 10030%			
Overdrive	yes			
Mechanical Data				
Housing Material	Aluminum, anodised			
Housing Material	Plastic, ABS			
Housing Material	Plastic, PMMA			
Degree of Protection	IP65			
Optic Cover	Plastic, PMMA			
Connection	M12 × 1; 5-pin			
Max. cable lenght	40 m			
Camera aperture inner diameter	130 mm			
Function				
Operating modes	Continuous, Strobe Overdrive			
Connection Diagram No.	007			
Control Panel No.	T18			
Suitable Mounting Technology No.	927			

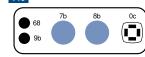
Complementary Products

ZC4G003 connection cable ZDCG004 connection cable ZDCG005 connection cable



Ctrl. Panel

T18



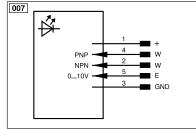
0c = sector selection indicator

68 = supply voltage indicator

7b = Color Selection Button

8b = Sector Selection Button

9b = Strobe Mode Indicator



+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
_	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	0	Test Input inverted	ENB	Encoder B	
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
V	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	
Γ	Teach Input	Аму	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	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	<u>+</u>	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
②	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower 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	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		•	







