Modular Ring Light White infrared light, 130 mm

LMRX202

Part Number



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

Quick and easy replacement of accessories

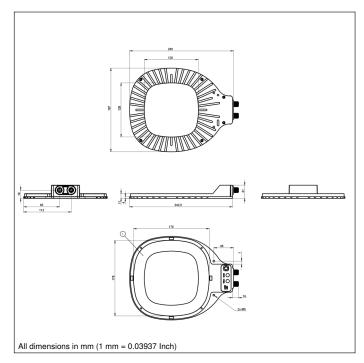
The modular ring lights of the LMRX series are suitable for many illuminating forms on a smaller visual field < Ø 130 mm. Based on the diffuse ring light, the way the light is scattered and directed at the target can be changed by adding a low angle attachment or a dome attachment. Each ring light has two light colors: Red/Cyan or White/IR. The lights can be operated in continuous mode or synchronized with the Machine Vision Camera in strobe mode or strobe mode with increased intensity (overdrive). Each ring 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 be used to control individual sectors and to control the color remotely.

Technical Data

roominour Butu					
Optical Data					
Light Source White-infrared lig					
Wavelength	860 nm				
Risk Group (EN 62471)	1				
Beam angle	± 65 °				
White light output	54000 Lux				
Infrared light output	36 W/m ²				
Measuring point distance	100 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					
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 nner diameter 130 mm				
Camera aperture inner diameter					
Function					
Operating modes	Continuous, Strobe Overdrive				
Connection Diagram No.	007				
Control Panel No.	T18				
Suitable Mounting Technology No.	927				

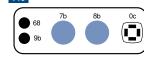
Complementary Products

- Compression of the Compression
Dome accessory ZMRG002
Low angle accessory ZMRG004
ZC4G003 connection cable
ZDCG004 connection cable
ZDCG005 connection cable



Ctrl. Panel

T18



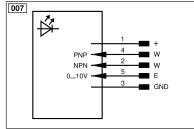
0c = sector selection indicator

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	
=	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	ors 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	
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)		•	









