

# Modular Ring Light

Red-cyan light, 130 mm

## OPT2426

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 are suitable for many illuminating forms on a smaller visual field  $< \varnothing 130$  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 bi-color 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

Optical Data	
Light Source	Red-cyan light
Wavelength	625...505 nm
Beam angle	$\pm 65^\circ$
Light output	$\leq 19200$ Lux
Electrical Data	
Supply Voltage	21,6...30 V DC
Power	11 W
Peak power	82 W
Current Consumption Continuous Mode (Ub = 24 V)	0,46 A
Current consumption strobe mode (Ub = 24 V)	3,42 A
Flash Duration	2 ms
Duty Cycle	$< 0,1$
Duty cycle	15 $\mu$ s
Fall time	10 $\mu$ s
Input signal	PNP/NPN
Temperature Range	-10...40 $^\circ$ C
Storage temperature	-20...60 $^\circ$ C
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Dimming	0...10 V $\approx$ 100...30%
Overdrive	yes
Mechanical Data	
Housing Material	Aluminum, PMMA, ABS
Degree of Protection	IP65
Optic Cover	PMMA
Connection	M12 $\times$ 1; 5-pin
Max. cable length	40 m
Camera aperture inner diameter	130 mm
Weight	$< 600$ g
Function	
Operating modes	Continuous, Strobe Overdrive
Connection Diagram No.	007
Control Panel No.	T18
Suitable Mounting Technology No.	927

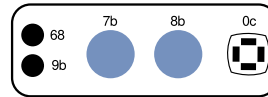
### Complementary Products

Dome accessory OPT2428/29

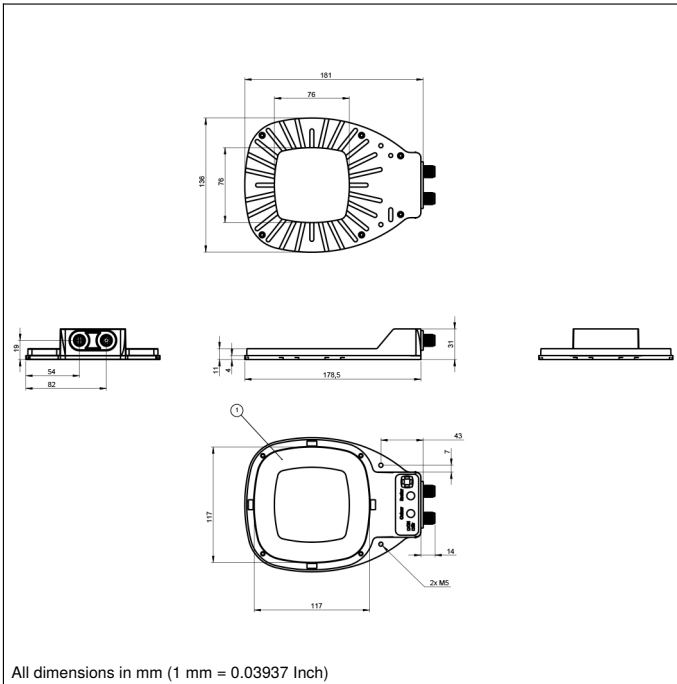
Low angle accessory OPT2430/31

Mounting bracket OPT2434

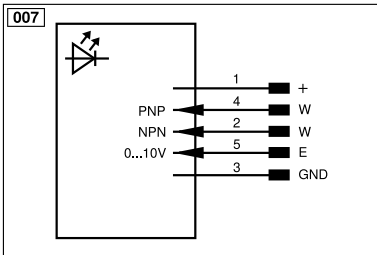
## Ctrl. Panel

**T18**


0c = sector selection indicator  
 68 = supply voltage indicator  
 7b = Color Selection Button  
 8b = Sector Selection Button  
 9b = Strobe Mode Indicator



All dimensions in mm (1 mm = 0.03937 Inch)



Legend			
+	Supply Voltage +	nc	Not connected
-	Supply Voltage 0 V	U	Test Input
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted
A	Switching Output (NO)	W	Trigger Input
Ā	Switching Output (NC)	W-	Ground for the Trigger Input
V	Contamination/Error Output (NO)	O	Analog Output
ȳ	Contamination/Error Output (NC)	O-	Ground for the Analog Output
E	Input (analog or digital)	BZ	Block Discharge
T	Teach Input	Amv	Valve Output
Z	Time Delay (activation)	a	Valve Control Output +
S	Shielding	b	Valve Control Output 0 V
RxD	Interface Receive Path	SY	Synchronization
TxD	Interface Send Path	SY-	Ground for the Synchronization
RDY	Ready	E+	Receiver-Line
GND	Ground	S+	Emitter-Line
CL	Clock	±	Grounding
E/A	Output/Input programmable	SnR	Switching Distance Reduction
IO-Link		Rx+/-	Ethernet Receive Path
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)
OSSD	Safety Output	La	Emitted Light disengageable
Signal	Signal Output	Mag	Magnet activation
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring
PT	Platinum measuring resistor	ENARs422	Encoder A/Ā (TTL)
			Encoder B/B̄ (TTL)
			Encoder A
			Encoder B
			Digital output MIN
			Digital output MAX
			Digital output OK
			Synchronization In
			Synchronization OUT
			Brightness output
			Maintenance
			Reserved
			Wire Colors according to DIN IEC 60757
			BK Black
			BN Brown
			RD Red
			OG Orange
			YE Yellow
			GN Green
			BU Blue
			VT Violet
			GY Grey
			WH White
			PK Pink
			GNYE Green/Yellow

