Flat Dome Light Infrared, 200 × 200 mm

OPT2436

Part Number



- Easy and flexible installation
- High homogeneity
- High performance: high intensity even in continuous mode
- No external control required

The flat dome lights are highly diffused lights with a camera viewing port. Due to their intense luminous flux and high homogeneity, they are perfectly suited for large-area applications such as robot-assisted pick and place. They can be used in continuous mode or synchronized with the Machine Vision Camera in strobe mode via PNP or NPN inputs. The illumination is extremely homogeneous with very narrow edges (4 mm), so the usable surface is very large and integration is very easy - thanks to the T-slot mounting and anchor points around the housing. The housing is designed like an LED backlight, but has a camera hole in the middle for positioning the camera.

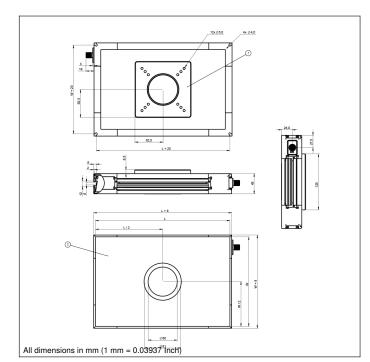
Technical Data

Optical Data					
Light Source	Infrared Light				
Wavelength	850 nm				
Risk Group (EN 62471)	1				
Light output	≤ 45000 Lux				
Electrical Data					
Supply Voltage	24 V DC				
Power	27,52 W				
Current Consumption Continuous Mode (Ub = 24 V)	1,15 A				
Duty cycle	15 <i>µ</i> s				
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%				
Dimming Overdrive	010 V ≙ 10030% no				
-					
Overdrive					
Overdrive Mechanical Data	no				
Overdrive Mechanical Data Luminous Field Length (L)	no 200 mm 200 mm 200 × 200 mm				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W)	no 200 mm 200 mm 200 × 200 mm				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field	no 200 mm 200 mm				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection Optic Cover	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40 PMMA (diffuse)				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection Optic Cover Connection	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40 PMMA (diffuse) M12 × 1; 5-pin				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection Optic Cover Connection Max. cable lenght	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40 PMMA (diffuse) M12 × 1; 5-pin 10 m				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection Optic Cover Connection Max. cable lenght Camera aperture inner diameter	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40 PMMA (diffuse) M12 × 1; 5-pin 10 m 65 mm				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection Optic Cover Connection Max. cable lenght Camera aperture inner diameter Weight	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40 PMMA (diffuse) M12 × 1; 5-pin 10 m 65 mm				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection Optic Cover Connection Max. cable lenght Camera aperture inner diameter Weight Function	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40 PMMA (diffuse) M12 × 1; 5-pin 10 m 65 mm < 1000 g				
Overdrive Mechanical Data Luminous Field Length (L) Luminous Field Width (W) Luminous Field Housing Material Degree of Protection Optic Cover Connection Max. cable lenght Camera aperture inner diameter Weight Function Operating modes	no 200 mm 200 mm 200 × 200 mm Aluminum, fiberglass- reinforced ABS IP40 PMMA (diffuse) M12 × 1; 5-pin 10 m 65 mm < 1000 g Continuous, Strobe				

Complementary Products Mounting Bracket OPT2433

Illumination Technology





Ctrl. Panel



68 = supply voltage indicator 9b = Strobe Mode Indicator

007	举	PNP NPN 010V	1 4 2 5 3	+ W W E GND		Legen + - A Ā V V V V E T T Z S	d
						DVD	

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)	Ū	Test Input inverted	ENв	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)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Amv	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 Color	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	
\odot	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	
EN0 RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			



