Flat Dome Light White light, 300 × 300 mm

OPT2437

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.

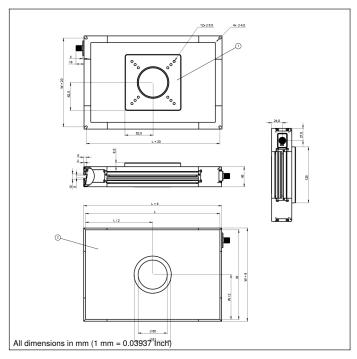
Technical Data

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Optical Data			
Light Source	White Light		
Color temperature	5700 K		
Light output	≤ 45000 Lux		
Electrical Data			
Supply Voltage	24 V DC		
Power	48,6 W		
Current Consumption Continuous Mode (Ub = 24 V)	2,03 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 III		
Protection Class			
Dimming	010 V ≙ 10030%		
Overdrive	no		
Mechanical Data			
Luminous Field Length (L)	300 mm		
Luminous Field Width (W)	300 mm		
Luminous Field	300 × 300 mm		
Housing Material	Aluminum, fiberglass- reinforced ABS		
Degree of Protection	IP40		
Optic Cover	PMMA (diffuse)		
Connection	M12 × 1; 5-pin		
Max. cable lenght	10 m		
Camera aperture inner diameter	65 mm		
Weight	< 2200 g		
Function			
Operating modes	Continuous, Strobe		
Connection Diagram No.	007		
Control Panel No.	T16		
Suitable Mounting Technology No.	926		
			

Complementary Products

Mounting Bracket OPT2433



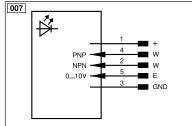


Ctrl. Panel

T16



68 = supply voltage indicator 9b = Strobe Mode Indicator



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	ENB	Encoder B
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Амах	Digital output MAX
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK
⊽	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	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 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
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)		•





