Flat Dome Light Red light, 500 × 500 mm

LFDR501

Part Number



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

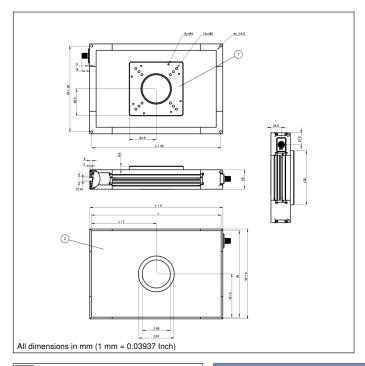
The LFD series flat dome lights are high-diffuse lights with a camera connection. Due to their intense luminous flux and high homogeneity, they are perfectly suited for large-area applications such as robot-assisted pick-and-place. They can be used in continuous mode or synchronized with the machine vision camera in strobe mode via PNP or NPN inputs. The light is characterized by its narrow edges (4 mm) and easy mounting thanks to the T-slot fastener and the anchor point around the housing. Cameras can be connected easily on the rear of the light.

Technical Data

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Optical Data			
Light Source	Red Light		
Wavelength	630 nm		
Red light output	144 W/m²		
Electrical Data			
Supply Voltage	21,626,4 V DC		
Power	141,12 W		
Current Consumption Continuous Mode (Ub = 24 V)	5,88 A		
Rise time	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)	500 mm		
Luminous Field Width (W)	500 mm		
Luminous Field	500 × 500 mm		
Housing Material	Aluminum, anodised		
Housing Material	Plastic, ABS/GF		
Degree of Protection	IP40		
Optic Cover	Plastic, PMMA (diffuse)		
Connection	M12 × 1; 5-pin		
Max. cable lenght	5 m		
Camera aperture inner diameter	65 mm		
Function			
Operating modes	Continuous, Strobe		
Connection Diagram No.	007		
Control Panel No.	T16		
Suitable Mounting Technology No.	926		
			

Complementary Products

ZC4G003 connection cable
ZDCG004 connection cable
ZDCG005 connection cable



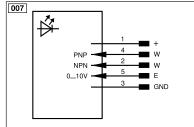
Ctrl. Panel

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)	0	Test Input inverted	ENв	Encoder B	
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
/	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
7	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
=	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Γ	Teach Input	Amv	Valve Output	OLT	Brightness output	
7	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
3	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	Wire Colors according to DIN IEC 60757	
ΓxD	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	
3	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
N	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)		•	









