Ring Light red light, 50 mm

ZVZF101

Part Number

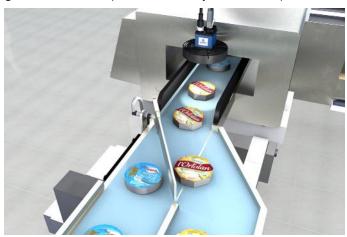


- Can be mounted together with Smart Camera or Machine Vision Camera
- Continuous mode or strobe mode synchronized with the camera
- Homogeneous and very bright illumination without shadows

Technical Data

Optical Data			
Light Source	Red Light		
Wavelength	634 nm		
Service Life (T = +25 °C)	100000 h		
Opening Angle	33 °		
Electrical Data			
Supply Voltage	1830 V DC		
Current Consumption Continuous Mode (Ub = 24 V)	< 760 mA		
Current consumption strobe mode (Ub = 24 V)	< 4100 mA		
Flash Duration	1730000 μs		
Duty Cycle	< 0,2		
Temperature Range	-3050 °C		
Storage temperature	-3060 °C		
Short Circuit Protection	yes		
Reverse Polarity Protection	yes		
Overload Protection	yes		
Protection Class	III		
Mechanical Data			
Housing Material	Aluminum, anodised		
Degree of Protection	IP67		
Optic Cover	PMMA		
Connection	M12 × 1; 4/5-pin		
Weight	< 500 g		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	1557,35 a		
Connection Diagram No.	181		
Connection Table No.	60		
Suitable Connection Equipment No.	37		
Suitable Mounting Technology No.	470 480		

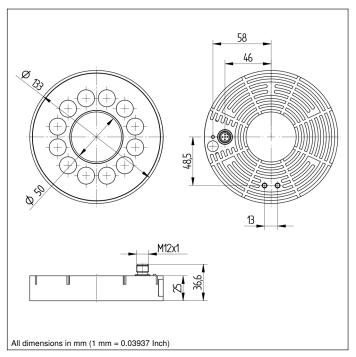
wenglor ring lights are ideally suited for uniform illumination. Thanks to 360° annular floodlighting, shadows can be reduced and image quality can thus be improved. They can be operated in continuous mode, or synchronized to the camera in flash mode. The rugged housing with IP67 protection and standardized mounting together with Smart Cameras or Machine Vision Cameras simplify integration into existing systems and generate lots of space for new system concepts.

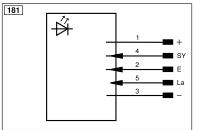


Complementary Products

Connection cable ZDCG005
ZC4G002 connection cable
ZDCG004 connection cable



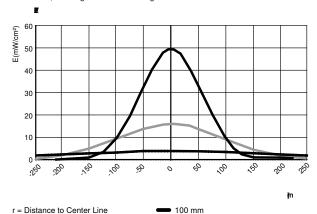




Legend						
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	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	
T	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 Colo	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	
0	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)		•	

Light distribution diagram

Flash mode, referring to different working distances













r = Distance to Center Line

E = Illuminance

200 mm

■■ 400 mm