Ring Illuminator

ZVZF102

Part Number

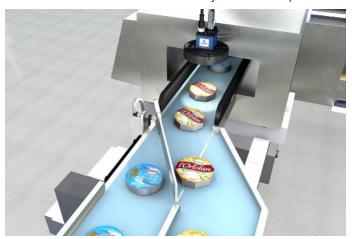


- Can be mounted together with a Smart Camera or a digital camera
- Continuous mode or flash mode synchronized with the camera
- Homogenous and very bright illumination without shadows

Technical Data

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Optical Data			
Light Source	Infrared Light		
Wavelength	850 nm		
Service Life (T = +25 °C)	100000 h		
Risk Group (EN 62471)	1		
Opening Angle	33 °		
Electrical Data			
Supply Voltage	1830 V DC		
Current Consumption Continuous Mode (Ub = 24 V)	< 780 mA		
Current Consumption Flash Mode (Ub = 24 V)	< 4800 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		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	1680,05 a		
Connection Diagram No.	181		
Connection Table No.	60		
Suitable Connection Equipment No.	37		
Suitable Mounting Technology No.	470 480		

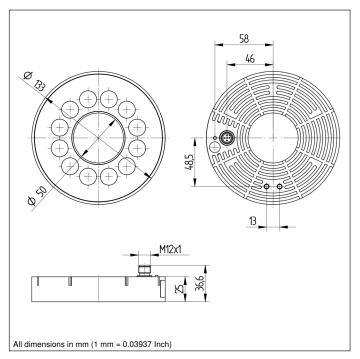
wenglor ring lights are ideally suited for uniform illumination. Thanks to 360° annular floodlighting, shadows can be reduced and image quality can thus be improved. They can be operated in the continuous mode, or synchronized to the camera in the flash mode. The rugged housing with IP67 protection and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

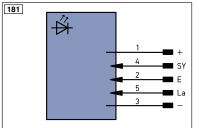


Complementary Products

Connection Cable ZC4G001







Leger	nd		PT	Platinum measuring resistor		₂ Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBRS	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
V	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OU	Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire C	olors according to 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
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power 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
ENors42	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow

Light Distribution Diagram

Flash mode, referring to different working distances

