Ring Illuminator





- 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

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 Flash 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			
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 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

Image Processing and Smart Cameras





All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d		PŤ	Platinum measuring resistor	FNARCO	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBREAM	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	
А	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	Алк	Digital output OK	
v	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
Ē	Input (analog or digital)	(- <i>j</i>	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input		AMV	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		a	Valve Control Output +	м	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path		SY	Synchronization	Wire Co	Wire Colors 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		Bx + / -	Ethernet Receive Path	GN	Green	
PoF	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	
ENIG	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow	

Light Distribution Diagram



