

Spotlight red light

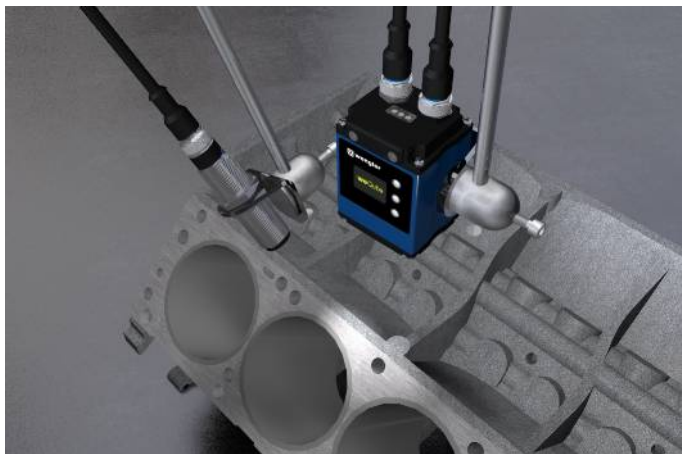
ZVZF201

Part Number



- Compact M18 standard design with IP67 degree of protection
- Continuous mode or strobe mode synchronized with the camera
- Homogeneous illumination of small areas

wenglor spot lights are ideally suited for vision applications in which only small areas need to be homogeneously illuminated. They can be operated in continuous mode or synchronized to the camera in strobe mode. Above all in applications where space is limited, users profit from the compact M18 format.

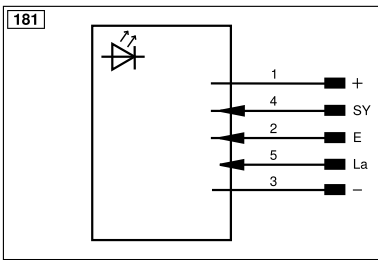
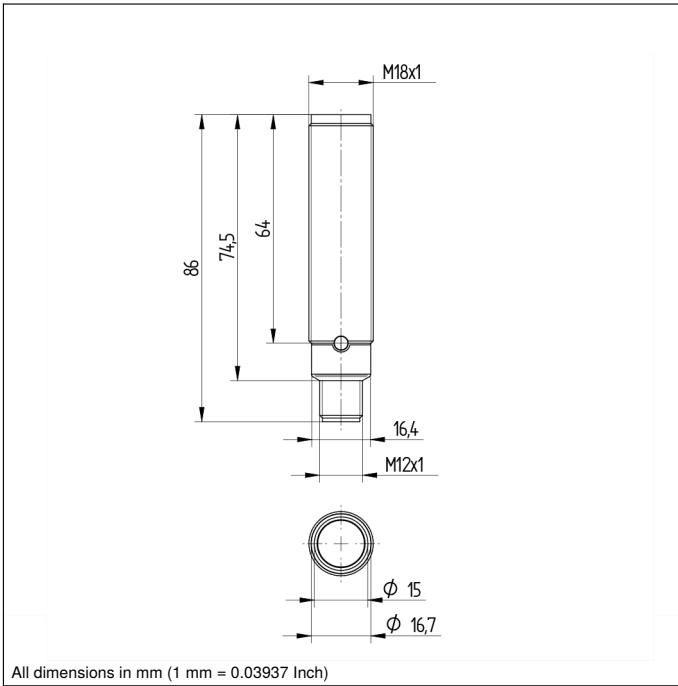


Technical Data

Optical Data	
Light Source	Red Light
Wavelength	634 nm
Service Life (T = +25 °C)	100000 h
Opening Angle	30 °
Environmental conditions	
Temperature Range	-30...50 °C
Storage temperature	-30...60 °C
Atmospheric humidity	< 80%, non-condensing
Electrical Data	
Supply Voltage	18...30 V DC
Current consumption flash mode overdrive (operating voltage = 24 V)	< 220 mA
Current Consumption Continuous Mode (U _b = 24 V)	< 100 mA
Flash Duration (max.)	17...30000 μs
Duty Cycle (max.)	< 0,2
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Mechanical Data	
Housing Material	Brass, nickel-plated
Optic Cover	Glass
Degree of Protection	IP67
UL Enclosure Type	1
Connection	M12 × 1; 4/5-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	2494,3 a
Connection Diagram No.	181
Suitable Connection Equipment No.	2 35 37
Suitable Mounting Technology No.	150

Complementary Products

ZC4G002 connection cable
ZDCG004 connection cable
ZDCG005 connection cable

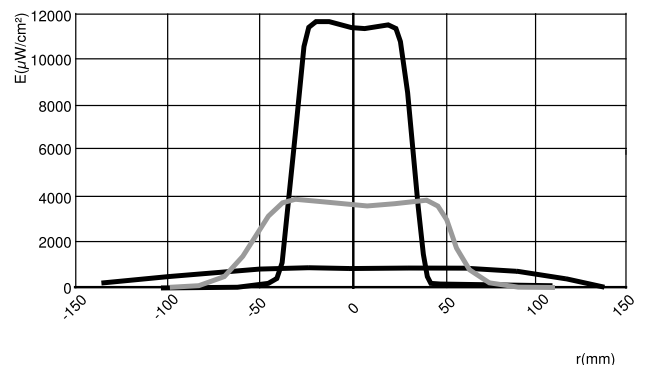


Legend			
+	Supply Voltage +	nc	Not connected
-	Supply Voltage 0 V	U	Test Input
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted
A	Switching Output (NO)	W	Trigger Input
Ā	Switching Output (NC)	W-	Ground for the Trigger Input
V	Contamination/Error Output (NO)	O	Analog Output
ȳ	Contamination/Error Output (NC)	O-	Ground for the Analog Output
E	Input (analog or digital)	BZ	Block Discharge
T	Teach Input	Amv	Valve Output
Z	Time Delay (activation)	a	Valve Control Output +
S	Shielding	b	Valve Control Output 0 V
RxD	Interface Receive Path	SY	Synchronization
TxD	Interface Send Path	SY-	Ground for the Synchronization
RDY	Ready	E+	Receiver-Line
GND	Ground	S+	Emitter-Line
CL	Clock	±	Grounding
E/A	Output/Input programmable	SnR	Switching Distance Reduction
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)
OSSD	Safety Output	La	Emitted Light disengageable
Signal	Signal Output	Mag	Magnet activation
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contact Monitoring
PT	Platinum measuring resistor	ENARs422	Encoder A/Ā (TTL)
		ENBRs422	Encoder B/B̄ (TTL)
		ENA	Encoder A
		ENB	Encoder B
		AMIN	Digital output MIN
		AMAX	Digital output MAX
		AOK	Digital output OK
		SY In	Synchronization In
		SY OUT	Synchronization OUT
		OLT	Brightness output
		M	Maintenance
		rsv	Reserved
		Wire Colors according to DIN IEC 60757	
		BK	Black
		BN	Brown
		RD	Red
		OG	Orange
		YE	Yellow
		GN	Green
		BU	Blue
		VT	Violet
		GY	Grey
		WH	White
		PK	Pink
		GNYE	Green/Yellow

Light distribution diagram

Flash mode, referring to different working distances

ZVZF201



r = distance to central axis

E = Irradiance

— 100 mm

— 200 mm

- - - 400 mm

