

# Floodlight

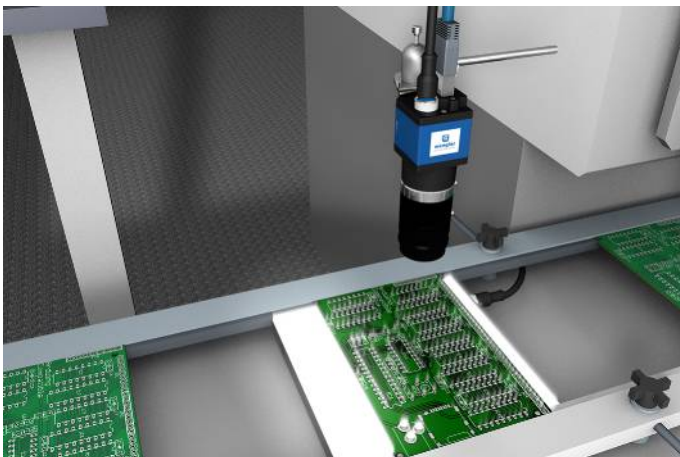
## ZVZF302

Part Number



- Continuous mode or flash mode synchronized with the camera
- Diffuse light for transmitted light and incident light applications
- Rugged housing (IP67) with minimal thickness and narrow framing

wenglor backlights are ideally suited for vision applications in which large areas need to be illuminated. They can be operated in the continuous mode, or synchronized to the digital camera in the flash mode. Thanks to their diffuse light, the backlights are ideal for applications with transmitted light or incident light. Above all in systems where space is limited, users profit from the rugged housing (IP67) with minimal thickness and narrow framing, and at the same time from the large illuminated surface area.



### Technical Data

#### Optical Data

Light Source	White Light
Service Life (T = +25 °C)	100000 h
Luminance (Continuous Mode)	7400 cd/m <sup>2</sup>
Luminance (Flash Mode)	31000 cd/m <sup>2</sup>

#### Electrical Data

Supply Voltage	18...30 V DC
Current Consumption Flash Mode (U <sub>b</sub> = 24 V)	< 4800 mA
Current Consumption Continuous Mode (U <sub>b</sub> = 24 V)	< 850 mA
Flash Duration	17...30000 μs
Duty Cycle	< 0,2
Temperature Range	-30...50 °C
Storage temperature	-30...60 °C
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III

#### Mechanical Data

Luminous field	180 × 180 mm
Housing Material	Aluminum, anodised
Optic Cover	PMMA
Degree of Protection	IP67
Connection	M12 × 1; 4/5-pin

#### Safety-relevant Data

MTTFd (EN ISO 13849-1)	89,81 a
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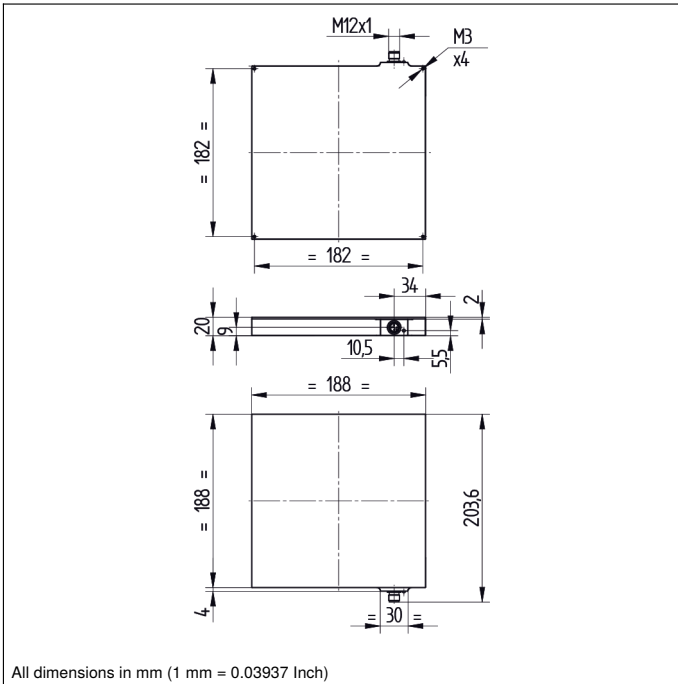
Connection Diagram No.	181
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Connection Table No.	60
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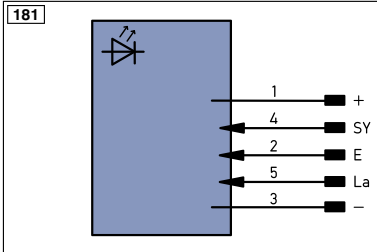
Suitable Connection Equipment No.	37
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### Complementary Products


Connection Cable ZC4G001



All dimensions in mm (1 mm = 0.03937 Inch)



#### Legend

<b>+</b> Supply Voltage +	<b>nc</b> not connected	<b>EN<sub>A</sub>ES42Z</b> Encoder A/Ā (TTL)
<b>-</b> Supply Voltage 0 V	<b>U</b> Test Input	<b>EN<sub>B</sub>ES42Z</b> Encoder B/B̄ (TTL)
<b>~</b> Supply Voltage (AC Voltage)	<b>Ū</b> Test Input inverted	<b>EN<sub>A</sub></b> Encoder A
<b>A</b> Switching Output (NO)	<b>W</b> Trigger Input	<b>EN<sub>B</sub></b> Encoder B
<b>Ā</b> Switching Output (NC)	<b>W-</b> Ground for the Trigger Input	<b>A<sub>MIN</sub></b> Digital output MIN
<b>V</b> Contamination/Error Output (NO)	<b>O</b> Analog Output	<b>A<sub>MAX</sub></b> Digital output MAX
<b>V̄</b> Contamination/Error Output (NC)	<b>O-</b> Ground for the Analog Output	<b>A<sub>OK</sub></b> Digital output OK
<b>E</b> Input (analog or digital)	<b>BZ</b> Block Discharge	<b>SY<sub>IN</sub></b> Synchronization In
<b>T</b> Teach Input	<b>AWV</b> Valve Output	<b>SY<sub>OUT</sub></b> Synchronization OUT
<b>Z</b> Time Delay (activation)	<b>a</b> Valve Control Output +	<b>OL<sub>T</sub></b> Brightness output
<b>S</b> Shielding	<b>b</b> Valve Control Output 0 V	<b>M</b> Maintenance
<b>RxD</b> Interface Receive Path	<b>SY</b> Synchronization	<b>rsv</b> reserved
<b>TxD</b> Interface Send Path	<b>SY-</b> Ground for the Synchronization	Wire Colors according to IEC 60757
<b>RDY</b> Ready	<b>E+</b> Receiver-Line	<b>BK</b> Black
<b>GND</b> Ground	<b>S+</b> Emitter-Line	<b>BN</b> Brown
<b>CL</b> Clock	<b>⊕</b> Grounding	<b>RD</b> Red
<b>E/A</b> Output/Input programmable	<b>S<sub>n</sub>R</b> Switching Distance Reduction	<b>OG</b> Orange
 <b>IO-Link</b>	<b>Rx+/-</b> Ethernet Receive Path	<b>YE</b> Yellow
<b>PoE</b> Power over Ethernet	<b>Tx+/-</b> Ethernet Send Path	<b>GN</b> Green
<b>IN</b> Safety Input	<b>Bus</b> Interfaces-Bus A(+)/B(-)	<b>BU</b> Blue
<b>OSSD</b> Safety Output	<b>La</b> Emitted Light disengageable	<b>VT</b> Violet
<b>Signal</b> Signal Output	<b>Mag</b> Magnet activation	<b>GY</b> Grey
<b>Bl..D<sub>v</sub>-</b> Ethernet Gigabit bidirect. data line (A-D)	<b>RES</b> Input confirmation	<b>WH</b> White
<b>EN<sub>0</sub>ES42Z</b> Encoder 0-pulse 0-0̄ (TTL)	<b>EDM</b> Contactor Monitoring	<b>PK</b> Pink
		<b>GNYE</b> Green/Yellow

