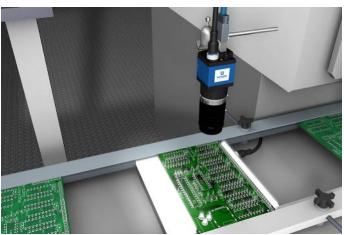
ZVZF401

Part Number



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

wenglor backlights are ideally suited for vision applications in which large areas need to be illuminated. They can be operated in continuous mode, or synchronized to the Machine Vision Camera in 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.



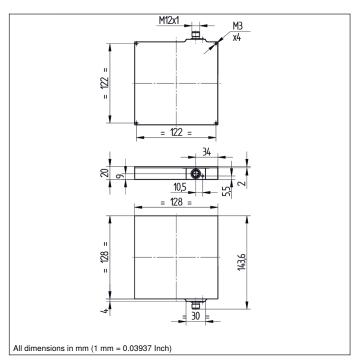
Technical Data

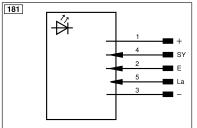
Optical Data			
Light Source	Infrared Light		
Wavelength	850 nm		
Service Life (T = +25 °C)	100000 h		
Luminance (Continuous Mode)	~ 1,32 W/m²sr		
Luminance (Flash Mode)	~ 7,7 W/m²sr		
Electrical Data			
Supply Voltage	1830 V DC		
Current consumption strobe mode (Ub = 24 V)	< 2700 mA		
Current Consumption Continuous Mode (Ub = 24 V)	< 470 mA		
Flash Duration	1730000 μs		
Duty Cycle	< 0,2		
Temperature Range	-3050 °C		
Storage temperature	-3060 °C		
Short Circuit Protection			
Reverse Polarity Protection	yes		
Overload Protection	yes		
Protection Class	III		
Mechanical Data			
Luminous Field	120 × 120 mm		
Housing Material	Aluminum, anodised		
Optic Cover	PMMA		
Degree of Protection	IP67		
Connection	M12 × 1; 4/5-pin		
Weight	< 400 g		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	222,64 a		
Connection Diagram No.	181		
Connection Table No.	60		
Suitable Connection Equipment No.	37		

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)	0	Test Input inverted	ENB	Encoder B	
A	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	
V	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	
Τ	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	fire 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	
②	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)		•	







