

# EB77VB7

Part Number

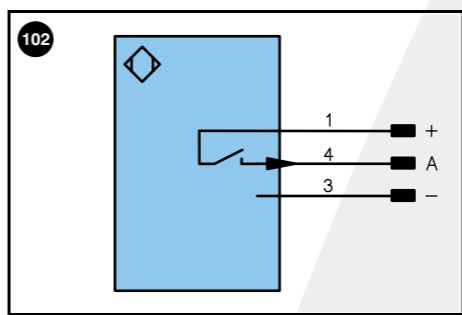


- Ample Performance Reserves
- Insensitive to Contamination
- IR Light

### Technical Data

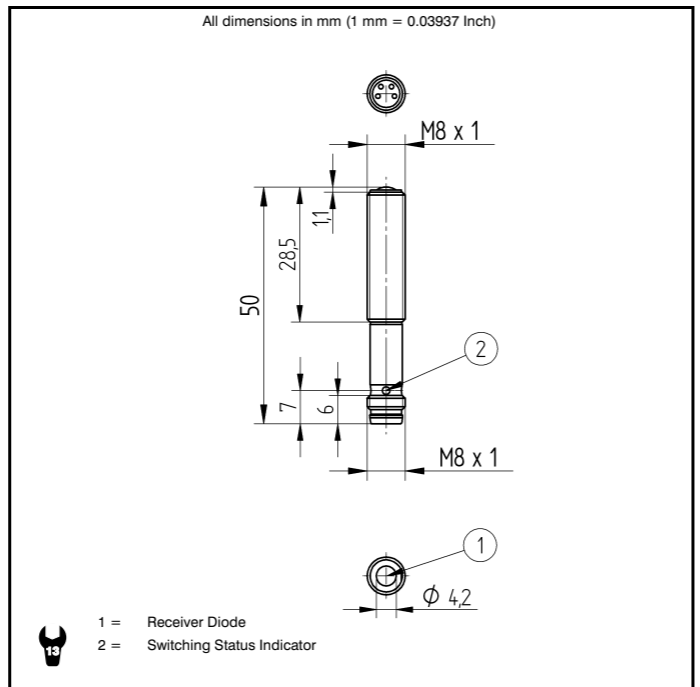
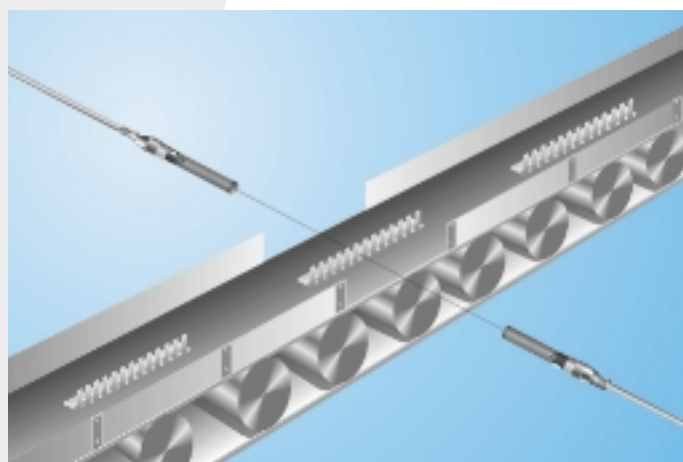
Optical Data	
Range	1500 mm
Switching Hysteresis	< 15 %
max. Ambient Light	10000 Lux
Opening Angle	20 °
Electrical Data	
Sensor Type	Receiver
Supply Voltage	10...30 V DC
Current Consumption (U <sub>b</sub> = 24V)	< 10 mA
Switching Frequency	500 Hz
Response Time	1 ms
Temperature Drift	< 10 %
Temperature Range	-10...60 °C
Switching Output Voltage Drop	< 2.5 V
Switching Output / Switching Current	100 mA
Residual Current Switching Output	< 50 μA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Mechanical Data	
Housing	Stainless Steel
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M8 x 1

CE		UL LISTED	
Part Number		Plug Version	
EB77VB7		EB77VB7	
PNP NO		●	
Connection Diagram No.		102	
Suitable Plug No.		7	



Legend		Wire colors according to DIN IEC 757			
+	Power supply "+"	U	Test input	BK	black
-	Power supply "0V"	W	Trigger input	BN	brown
-	Power supply (AC Voltage)	O	Analog output (1,2,3...)	RD	red
A	Switching output (1,2,3... / NO)	O-	Ground for the analog output	OG	orange
A	Switching output (1,2,3... / NC)	BZ	Block discharge	YE	yellow
V	Contamination / Error output (NC)	AW	Valve output	GN	green
V	Contamination / Error output (NC)	a	Valve control output "+"	BU	blue
E	Input (analog or digital)	b	Valve control output "0V"	VT	violet
T	Teach input	SY	Synchronization	GY	grey
Z	Time delay (activation)	E+	Receiver-Line	WH	white
S	Shielding	S+	Emitter-Line	PK	pink
RxD	RS-232 receive path	+	Grounding	GNYE	green yellow
TxD	RS-232 send path	S-R	Switching Distance Reduction		
RDY	Ready	USB+	USB data +		
GND	Ground	USB-	USB data -		
CL	Clock	Ba	Interfaces-Bus A(+)/B(-)		
		La	Emitted light disengageable		

These through beam sensors are well suited for use in aggressive industrial environments. The sensor can be checked for correct functioning via the test input. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments.



Specifications are subject to change without notice  
24/06

### Accessories

- Mounting Clamp BSM8NB
- Fixation System W8S12