Through-Beam Sensor

EB77VD7 Part Number



- Ample performance reserves
- Infrared light
- Insensitive to contamination

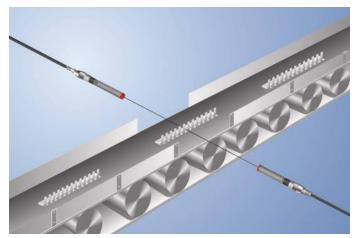
Technical Data

Optical Data				
Range	1500 mm			
Switching Hysteresis	< 15 %			
Light Source	Infrared Light			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Opening Angle	20 °			
Electrical Data				
Sensor Type	Receiver			
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 10 mA			
Switching Frequency	500 Hz			
Response Time	1 ms			
Temperature Drift	< 10 %			
Temperature Range	-1060 °C			
Switching Output Voltage Drop	< 2,5 V			
Switching Output/Switching Current	100 mA			
Residual Current Switching Output	< 50 µA			
Short Circuit and Overload Protection	yes			
Reverse Polarity Protection	yes			
Protection Class	Ш			
Mechanical Data				
Housing Material	Stainless Steel			
Full Encapsulation	yes			
Degree of Protection	IP67			
Connection	M8 × 1; 4-pin			
PNP NC				
Connection Diagram No.	106			
Control Panel No.	B 3			
Suitable Connection Equipment No.	7			
Suitable Mounting Technology No.	200			

Suitable Emitter

SB777

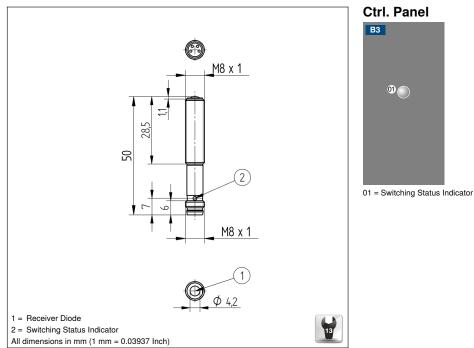
These through-beam sensors are best suited for use in industrial environments. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments. The sensors can be checked for correct functioning via the test input.



Complementary Products PNP-NPN Converter BG7V1P-N-2M

Photoelectronic Sensors





egen	d		PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBR5422	Encoder B/B (TTL)
_	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENв	Encoder B
A	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN
<u>م</u>	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	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
Ξ	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		а	Valve Control Output +	м	Maintenance
3	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire Co	lors according to DIN IEC 757
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
۲	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
DSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data	a line (A-D)	RES	Input confirmation		Pink
	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow



106

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nc