Through-Beam Sensor

EW98PCV3

Part Number

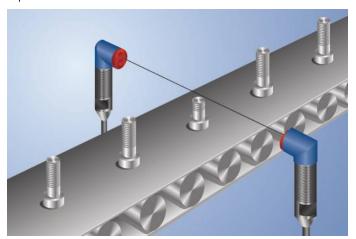


- Contamination output
- Special alignment optic

Technical Data

Tooliiiloui Butu				
Optical Data				
Range	10000 mm			
Switching Hysteresis	< 15 %			
Light Source	Red Light			
Service Life (T = +25 °C)	100000 h			
Max. Ambient Light	10000 Lux			
Opening Angle	6 °			
Electrical Data				
Sensor Type	Receiver			
Supply Voltage	1030 V DC			
Current Consumption (Ub = 24 V)	< 40 mA			
Switching Frequency	150 Hz			
Response Time	3300 μs			
Temperature Drift	< 10 %			
Temperature Range	-1060 °C			
Switching Output Voltage Drop	< 2,5 V			
PNP Switching Output/Switching Current	200 mA			
Residual Current Switching Output	< 50 µA			
PNP Contamination Output/Switching Current	50 mA			
Short Circuit and Overload Protection	yes			
Reverse Polarity Protection yes				
Protection Class	III			
Mechanical Data				
Setting Method	Potentiometer			
Housing Material	Stainless Steel			
Full Encapsulation	yes			
Degree of Protection	IP67			
Connection M12 × 1; 4-pin				
Contamination Output	•			
PNP NO/NC switchable				
Connection Diagram No.	105			
Control Panel No.	D5			
Suitable Connection Technology No.	2			
Suitable Mounting Technology No.	150			
	100			

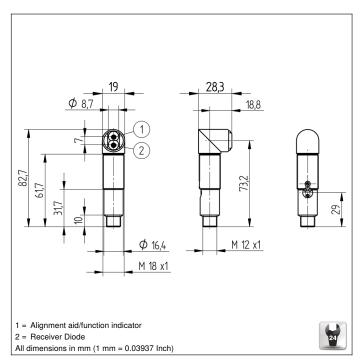
These through beam sensors are best suited for use in industrial environments. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments. The sensors can be checked for correct functioning via the test input.



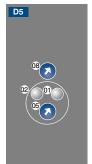
Complementary Products

PNP-NPN Converter BG2V1P-N-2M

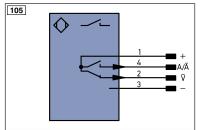




Ctrl. Panel



- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 05 = Switching Distance Adjuster
- 08 = NO/NC Switch



.egen	ıd		PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +		nc	not connected	ENB	Encoder B	
-	Supply Voltage 0 V		U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX	
Α	Switching Output	(NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In	
V	Contamination/Error Output	(NO)	0-	Ground for the Analog Output	SY OUT		
V	Contamination/Error Output	(NC)	BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)		Awv	Valve Output	М	Maintenance	
Т	Teach Input		а	Valve Control Output +			
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization		Wire Colors according to	
RxD	Interface Receive Path	erface Receive Path		Receiver-Line	DIN IE	DIN IEC 757	
TxD	Interface Send Path		S+	Emitter-Line	BK	Black	
RDY	Ready		±	Grounding	BN	Brown	
GND	Ground		SnR	Switching Distance Reduction	RD	Red	
CL	Clock		Rx+/-	Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow	
0	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet		La	Emitted Light disengageable	BU	Blue	
IN	Safety Input		Mag	Magnet activation	VT	Violet	
OSSD	Safety Output		RES	Input confirmation	GY	Grey	
Signal	Signal Output		EDM	Contactor Monitoring	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow	









