## **Through-Beam Sensor**

## **SW983**

Part Number



- Special alignment optic
- Test input

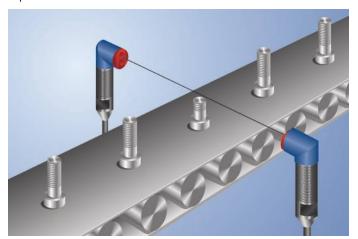
## **Technical Data**

Optical Data					
Range	10000 mm				
Light Source	Red Light				
Service Life (T = +25 °C)	100000 h				
Opening Angle	6 °				
Electrical Data					
Sensor Type	Emitter				
Supply Voltage	1030 V DC				
Current Consumption (Ub = 24 V)	< 40 mA				
Temperature Drift	< 10 %				
Temperature Range	-1060 °C				
Reverse Polarity Protection	yes				
Protection Class	III				
Mechanical Data					
Housing Material	Stainless Steel				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	M12 × 1; 4-pin				
Connection Diagram No.	1018				
Suitable Connection Equipment No.	2				
Suitable Mounting Technology No.	150				

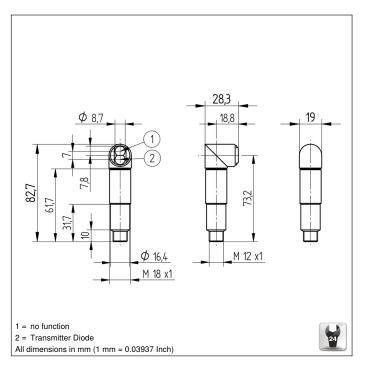
## **Suitable Receiver**

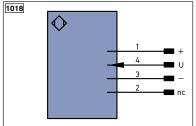
EW98PC3

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.









Legend PT Platinum massuring resistor FNew Encoder A/Ā (TTI.)							
Legen		PT	Platinum measuring resistor		Encoder A/Ā (TTL)		
+	Supply Voltage +	nc	not connected		Encoder B/B (TTL)		
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A		
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B		
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN		
Ā	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		
E	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		
S	Shielding	b	Valve Control Output 0 V	rsv	reserved		
RxD	Interface Receive Path	SY	Synchronization	Wire Co	Colors 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		Yellow		
<b>②</b>	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		
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey		
Signal	Signal Output	Mag	Magnet activation	WH	White		
	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink		
	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow		







