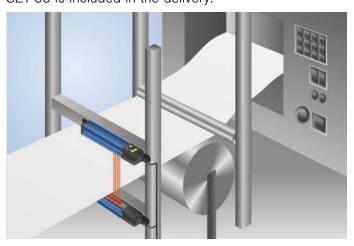
Light Curtain for Measuring Tasks

OEEI501U0135



- Graphical display for easy operation
- Integrated evaluation unit
- Object detection and measurement
- Recognition of small parts

As these light curtains for measurement task are equipped with an integrated evaluation unit, external connection units are not needed. Objects are both recognized (via the digital output) and measured (via the analog output). The light curtains can be set up easily using the menu-controlled graphic display. Convenient parametrization and quick diagnosis is possible via the IO-Link interface. The adequate mounting angle BEF-SET-33 is included in the delivery.



Technical Data

echnicai Dala			
Optical Data			
Range	2000 mm		
Measurement Field Height (MFH)	50 mm		
Beam Distance	2 mm		
Light Source	Infrared Light		
Service Life (T = +25 °C)	100000 h		
Max. Ambient Light	10000 Lux		
Opening Angle	10 °		
Electrical Data			
Sensor Type	Receiver		
Supply Voltage	1830 V DC		
Current Consumption (Ub = 24 V)	< 60 mA		
Switching Frequency	150 Hz		
Response Time	3 ms		
On-/Off-Delay	010 s		
Temperature Drift	< 10 %		
Temperature Range	-2560 °C		
Number of Switching Outputs	2		
Switching Output Voltage Drop	< 2,5 V		
Switching Output/Switching Current	100 mA		
Residual Current Switching Output	< 50 μA		
Analog Output	010 V/420 mA		
Short Circuit and Overload Protection			
Reverse Polarity Protection	yes		
Lockable	yes		
Interface	IO-Link V1.0		
Protection Class	III		
Mechanical Data			
Setting Method	Menu (OLED)		
Housing Material	Aluminum		
Degree of Protection	IP65		
Connection	M12 × 1; 4/5-pin		
Switchable to NC/NO	•		
Configurable as PNP/Push-Pull	Ŏ		
Error Output			
IO-Link	Ŏ		
Connection Diagram No.	188		
Control Panel No.	X2		
Suitable Connection Equipment No.	2 35		
Suitable Mounting Technology No.	700		

Suitable Emitter

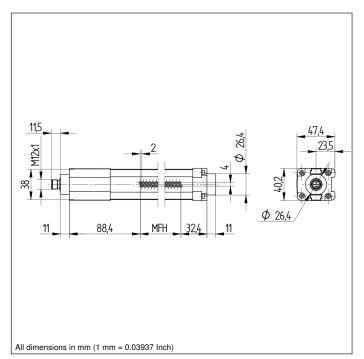
OSEI501Z0103

Display brightness may decrease with age. This does not result in any impairment of the sensor function.

Complementary Products

Analog Evaluation Unit AW02
IO-Link Master
Software





Ctrl. Panel

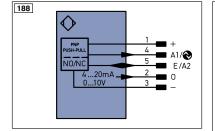


20 = Enter Button

22 = UP Button

23 = Down Button

60 = Display



_egen	ia		PT	Platinum measuring resistor	ENARS4	₂ Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	EN _{BRS4}	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	
A	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 OU	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 C	Wire 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	YE	Yellow	
0	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 Output		Mag	Magnet activation	WH	White	
	Ethernet Gigabit bidirect, data	a line (A-D)	RES	Input confirmation	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)	, ,	EDM	Contactor Monitoring	GNYE	Green/Yellow	









