

Light Curtain for Measuring Tasks

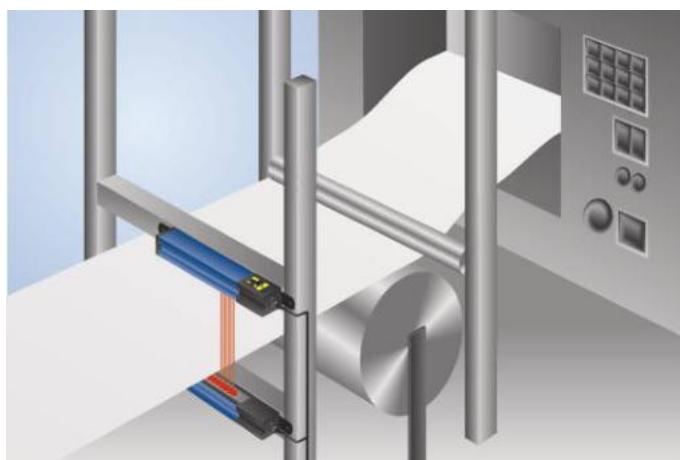
OEEI501U0135

Part Number



- 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

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	18...30 V DC
Current Consumption (Ub = 24 V)	< 60 mA
Switching Frequency	150 Hz
Response Time	3 ms
On-/Off-Delay	0...10 s
Temperature Drift	< 10 %
Temperature Range	-25...60 °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	0...10 V/4...20 mA
Short Circuit and Overload Protection	yes
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 x 1; 4/5-pin
Switchable to NC/NO	
Configurable as PNP/Push-Pull	●
Error Output	●
IO-Link	●
Connection Diagram No.	188
Control Panel No.	X2
Suitable Connection Equipment No.	2 35
Suitable Mounting Technology No.	700

Suitable Emitter

OEEI501Z0103

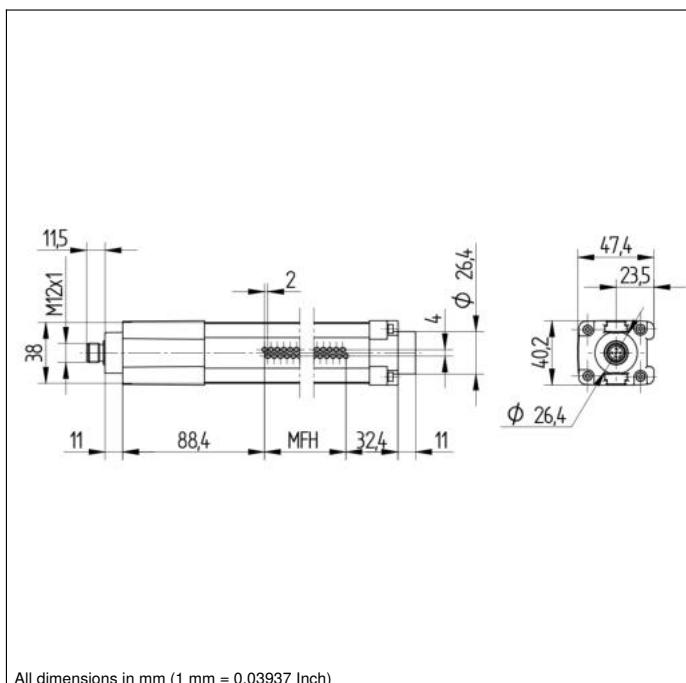
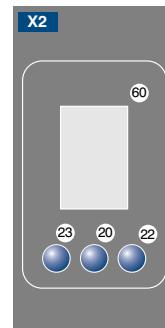
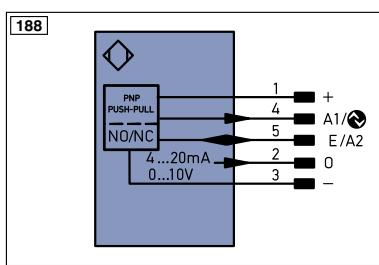
Display brightness may decrease with age. This does not result in any impairment of the sensor function.

Complementary Products

Analog Evaluation Unit AW02

IO-Link Master

Software


Ctrl. Panel

 20 = Enter Button
 22 = UP Button
 23 = Down Button
 60 = Display

Legend

+	Supply Voltage +	PT	Platinum measuring resistor
-	Supply Voltage 0 V	nc	not connected
~	Supply Voltage (AC Voltage)	U	Test Input
A	Switching Output (NO)	Ü	Test Input inverted
Ā	Switching Output (NC)	W	Trigger Input
V	Contamination/Error Output (NO)	W-	Ground for the Trigger Input
Ā	Contamination/Error Output (NC)	O	Analog Output
E	Input (analog or digital)	O-	Ground for the Analog Output
T	Teach Input	BZ	Block Discharge
Z	Time Delay (activation)	Awv	Valve Output
S	Shielding	a	Valve Control Output +
RxD	Interface Receive Path	b	Valve Control Output 0 V
TxD	Interface Send Path	SY	Synchronization
RDY	Ready	SY-	Ground for the Synchronization
GND	Ground	E+	Receiver-Line
CL	Clock	E-	Emitter-Line
E/A	Output/Input programmable	±	Grounding
IO-Link		SnR	Switching Distance Reduction
PoE	Power over Ethernet	Rx+/-	Ethernet Receive Path
IN	Safety Input	Tx+/-	Ethernet Send Path
SSO	Safety Output	Bus	Interfaces-Bus A(+)/B(-)
Signal	Signal Output	La	Emitted Light disengageable
BLD	Ethernet Gigabit bidirect. data line (A-D)	Mag	Magnet activation
ENoRS422	Encoder 0-pulse 0-0 (TTL)	RES	Input confirmation
		EDM	Contactor Monitoring

ENoRS422 Encoder A/Ā (TTL)
 ENBRS422 Encoder B/Ā (TTL)
 ENA Encoder A
 ENB Encoder B
 AMIN Digital output MIN
 AMAX Digital output MAX
 AOK Digital output OK
 SY IN Synchronization IN
 SY OUT Synchronization OUT
 OLT Brightness output
 M Maintenance
 rsv reserved

Wire Colors according to DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

