

Light Curtain for Measuring Tasks

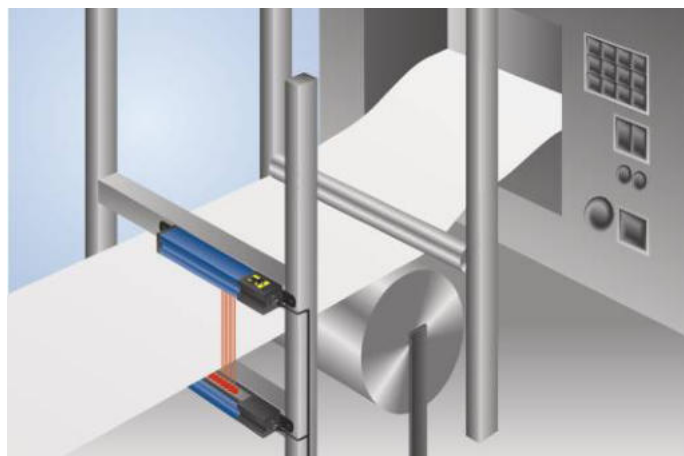
OEEI152U0135

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)	150 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 (U _b = 24 V)	< 60 mA
Switching Frequency	60 Hz
Response Time	8 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 × 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

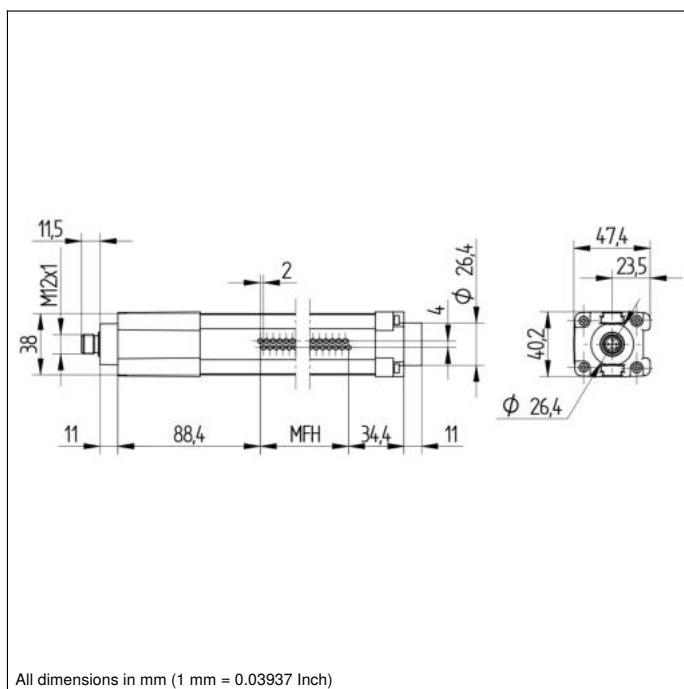
Suitable Emitter

OSEI152Z0103

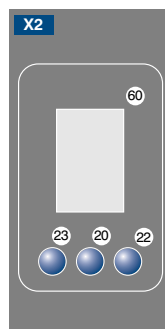
Display brightness may decrease with age. This does not result in any impairment of the sensor function.

Complementary Products

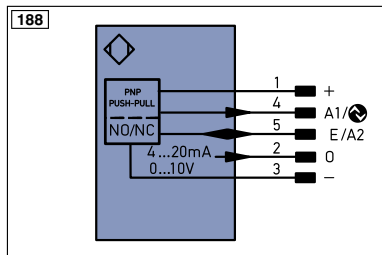
Analog Evaluation Unit AW02
IO-Link Master
Software



Ctrl. Panel



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



Legend

+ Supply Voltage +	PT Platinum measuring resistor	ENAR5422 Encoder A/Ä (TTL)
- Supply Voltage 0 V	nc not connected	ENBR5422 Encoder B/B (TTL)
~ Supply Voltage (AC Voltage)	U Test Input	ENa Encoder A
A Switching Output (NO)	Ü Test Input inverted	ENb Encoder B
Ä Switching Output (NC)	W Trigger Input	AMIN Digital output MIN
V Contamination/Error Output (NO)	W- Ground for the Trigger Input	AMAX Digital output MAX
Ṽ Contamination/Error Output (NC)	O Analog Output	AOX Digital output OK
E Input (analog or digital)	O- Ground for the Analog Output	SY in Synchronization In
T Teach Input	BZ Block Discharge	SY OUT Synchronization OUT
Z Time Delay (activation)	AMV Valve Output	OLt Brightness output
S Shielding	a Valve Control Output +	M Maintenance
RxD Interface Receive Path	b Valve Control Output 0 V	rsv reserved
TxD Interface Send Path	SY Synchronization	Wire Colors according to DIN IEC 757
RDY Ready	SY- Ground for the Synchronization	BK Black
GND Ground	E+ Receiver-Line	BN Brown
CL Clock	S+ Emitter-Line	RD Red
E/A Output/Input programmable	± Grounding	OG Orange
IO-Link	SnR Switching Distance Reduction	YE Yellow
PoE Power over Ethernet	Rx+/- Ethernet Receive Path	GN Green
IN Safety Input	Tx+/- Ethernet Send Path	BU Blue
OSSD Safety Output	Bus Interfaces-Bus A(+)/B(-)	VT Violet
Signal Signal Output	La Emitted Light disengageable	GY Grey
BLD+/- Ethernet Gigabit bidirect. data line (A-D)	Mag Magnet activation	WH White
EN0R5422 Encoder 0-pulse 0-0 (TTL)	RES Input confirmation	PK Pink
	EDM Contactor Monitoring	GNYE Green/Yellow

