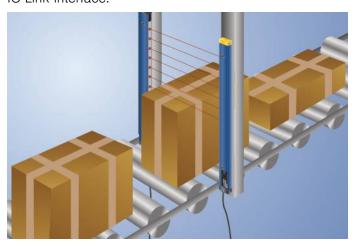
# **Light Curtain** for Measuring Tasks

## OEEB183U0135



- 360° visible switching status display
- Graphical display for easy operation
- Integrated evaluation unit
- Object detection and measurement

As these light curtains for measurement tasks 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.



#### **Technical Data**

recillical Data	
Optical Data	
Range	3000 mm
Measurement Field Height (MFH)	1800 mm
Beam Distance	30 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)	< 50 mA
Switching Frequency	8 Hz
Response Time	62 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	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	Ŏ
Error Output	
iO-Link	Ŏ
Connection Diagram No.	188
Control Panel No.	EB3
Suitable Connection Equipment No.	2 35

#### **Suitable Emitter**

#### OSEB183Z0103

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

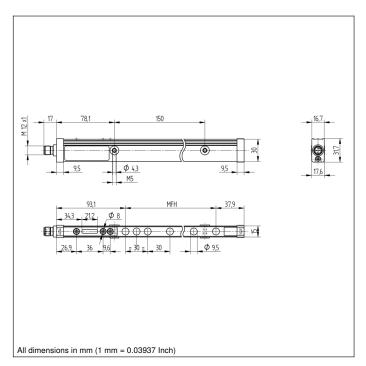
### **Complementary Products**

Analog Evaluation Unit AW02

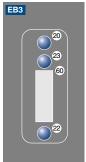
IO-Link Master

Software

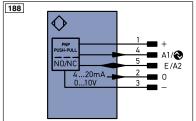




#### Ctrl. Panel



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



Leger	nd	F	PT	Platinum measuring resistor	ENARS42	Encoder A/Ā (TTL)
+	Supply Voltage +	n	ıc	not connected	ENBRS42	Encoder B/B (TTL)
-	Supply Voltage 0 V	L	J	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	C		Test Input inverted	ENB	Encoder B
Α		IO) V	٧	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (N	IC)	V —	Ground for the Trigger Input	Амах	Digital output MAX
V		IO)	)	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (N	IC)	) –	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	E	3Z	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input	A	\wv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	ŧ	Valve Control Output +	М	Maintenance
S	Shielding	b		Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY Synchronization		Wire Colors according to IEC 60757	
TxD	Interface Send Path	8	Y-	Ground for the Synchronization	BK	Black
RDY	Ready	E	+	Receiver-Line	BN	Brown
GND	Ground	8	+	Emitter-Line	RD	Red
CL	Clock	=	<u></u>	Grounding	OG	Orange
E/A	Output/Input programmable	8	SnR	Switching Distance Reduction	YE	Yellow
•	IO-Link	F	Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet	Ī	Гх+/-	Ethernet Send Path	BU	Blue
IN	Safety Input	E	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	L	.a	Emitted Light disengageable	GY	Grey
Signal	Signal Output	N	/lag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data lin		RES	Input confirmation	PK	Pink
ENors42	Encoder 0-pulse 0-0 (TTL)	E	D <b>M</b>	Contactor Monitoring	GNYE	Green/Yellow









