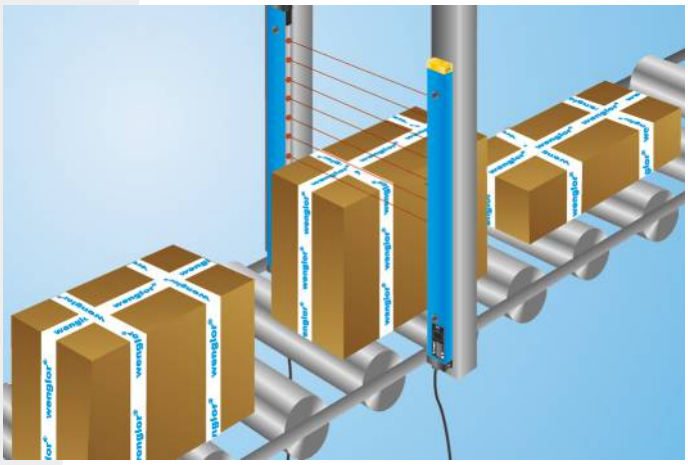
Light Curtain
for Measuring Tasks

OEEB163U0135
Part Number

- **360° visible Switching Status Display**
- **graphical display for easy operation**
- **integrated evaluation unit**
- **object detection and measurement**

These Light Curtains for Measurement Tasks are equipped with an integrated evaluation unit, thus external connection units are not needed. Object detection via the digital output, as well as object measurement via the analog output can be made. The OLED display enables an easy menu-driven configuration and facilitates alignment and setup. Via the IO-Link interface a comfortable parametrization and quick diagnosis is possible.



Technical Data

Optical Data	
Range	3000 mm
Measurement Field Height (MFH)	1650 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	18...30 V DC
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	9 Hz
Response Time	57 ms
On-/Off-Delay	0...10 s
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
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
IO-Link Version	1.0
Protection Class	III
Mechanical Data	
Adjustment	Menu (OLED)
Housing Material	Aluminum
Degree of Protection	IP65
Connection	M12 × 1; 4/5-pin
NO/NC switchable	●
Configurable as PNP/Push-Pull	●
Error Output	●
IO-Link	●
Connection Diagram No.	188
Control Panel No.	EB3
Suiting Connection Technology No.	2 35

Suiting Emitter

OSEB163Z0103

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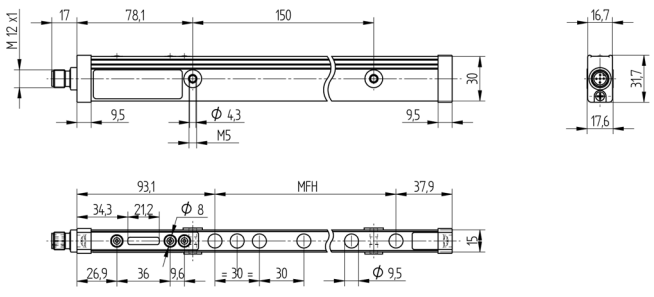
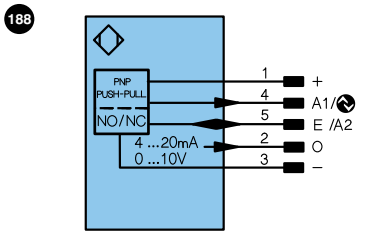


All dimensions in mm (1 mm = 0.03937 Inch)



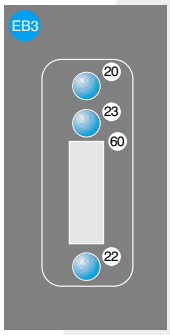
Legend

+	Supply Voltage +		U	Test Input		PoE	Power over Ethernet
–	Supply Voltage 0 V		Ū	Test Input inverted			
~	Supply Voltage (AC Voltage)		W	Trigger Input			
A	Switching Output	(NO)	O	Analog Output			
Ā	Switching Output	(NC)	O–	Ground for the Analog Output			Wire Colors according to DIN IEC 757
V	Contamination/Error Output	(NO)	BZ	Block Discharge			
V̄	Contamination/Error Output	(NC)	AMV	Valve Output		BK	Black
E	Input (analog or digital)		a	Valve Control Output +		BN	Brown
T	Teach Input		b	Valve Control Output 0 V		RD	Red
Z	Time Delay (activation)		SY	Synchronization		OG	Orange
S	Shielding		E+	Receiver-Line		YE	Yellow
RxD	Interface Receive Path		S+	Emitter-Line		GN	Green
TxD	Interface Send Path		⏚	Grounding		BU	Blue
RDY	Ready		SnR	Switching Distance Reduction		VT	Violet
GND	Ground		Rx+/–	Ethernet Receive Path		GY	Grey
CL	Clock		Tx+/–	Ethernet Send Path		WH	White
E/A	Output/Input programmable		Bus	Interfaces-Bus A(+)/B(–)		PK	Pink
	IO-Link		La	Emitted Light disengageable		GNYE	Green Yellow

Complementary Products

IO-Link Master

Ctrl.Panel



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

Specifications are subject to change without notice