Light Curtain
for Measuring Tasks

OSEB452Z0103

Part Number

● **Test Input**

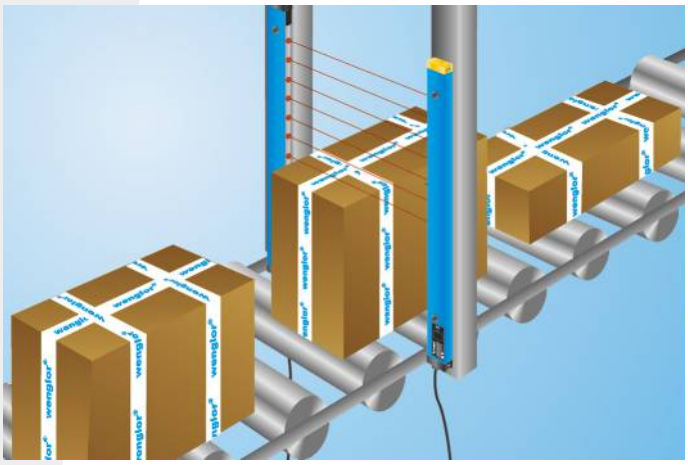
Technical Data

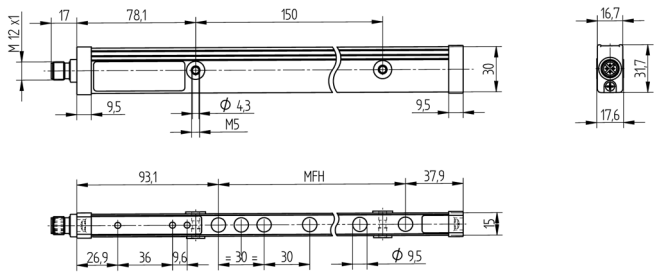
Optical Data	
Range	3000 mm
Measurement Field Height (MFH)	450 mm
Beam Distance	30 mm
Light Source	Infrared Light
Service Life (T = +25 °C)	100000 h
Electrical Data	
Sensor Type	Emitter
Supply Voltage	18...30 V DC
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Reverse Polarity Protection	yes
Test input	yes
Protection Class	III
Mechanical Data	
Housing Material	Aluminum
Degree of Protection	IP65
Connection	M12 × 1; 4-pin
Connection Diagram No.	703
Control Panel No.	EB2
Suiting Connection Technology No.	2

Suiting Receiver

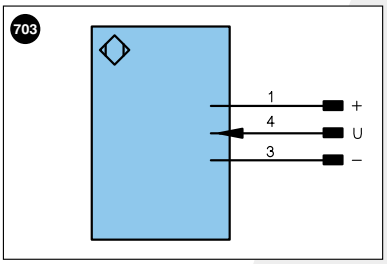
OEEB452U0135

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.





All dimensions in mm (1 mm = 0.03937 Inch)



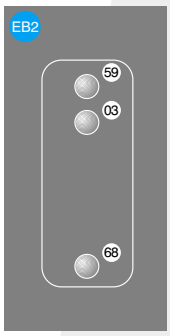
Legend

+	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		
V	Contamination/Error Output (NO)	BZ	Block Discharge		
V̄	Contamination/Error Output (NC)	AMV	Valve Output		
E	Input (analog or digital)	a	Valve Control Output +		
T	Teach Input	b	Valve Control Output 0 V		
Z	Time Delay (activation)	SY	Synchronization		
S	Shielding	E+	Receiver-Line		
RxD	Interface Receive Path	S+	Emitter-Line		
TxD	Interface Send Path	⏚	Grounding		
RDY	Ready	SnR	Switching Distance Reduction		
GND	Ground	Rx+/–	Ethernet Receive Path		
CL	Clock	Tx+/–	Ethernet Send Path		
E/A	Output/Input programmable	Bus	Interfaces-Bus A(+)/B(–)		
	IO-Link	La	Emitted Light disengageable		

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

Ctrl.Panel



03 = Error Indicator
59 = Calibration
68 = Supply Voltage Indicator

Specifications are subject to change without notice