

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
Current Consumption (U _b = 24 V)	< 50 mA
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. **1018**

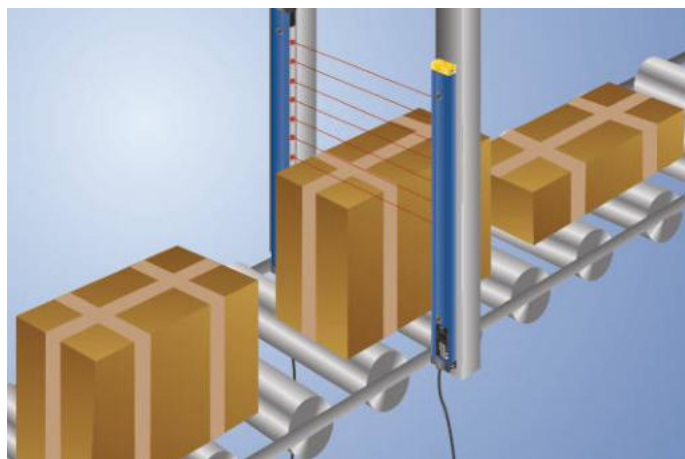
Control Panel No. **EB2**

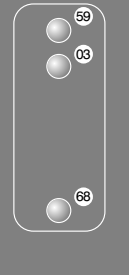
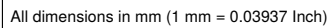
Suitable Connection Equipment No. **2**

Suitable Receiver

OEEB452U0135

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.

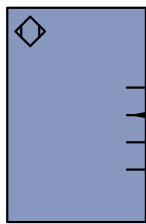




03 = Error Indicator

59 = Calibration

68 = Supply Voltage Indicator



1 —■ +
 4 —■ U
 3 —■ -
 2 —■ nc

+	Supply Voltage +
-	Supply Voltage 0 V
~	Supply Voltage (AC Voltage)
A	Switching Output (NO)
Ā	Switching Output (NC)
V	Contamination/Error Output (NO)
Ī	Contamination/Error Output (NC)
E	Input (analog or digital)
T	Teach Input
Z	Time Delay (activation)
S	Shielding
RxD	Interface Receive Path
TxD	Interface Send Path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable
	IO-Link
PoE	Power over Ethernet
IN	Safety Input
QSD	Safety Output
Signal	Signal Output
BL-D _{1/2}	Ethernet Gigabit bidirect. data line (A-D)
EN0-PSA2	Encoder 0-pulse 0-0 (TTL)

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ū	Test Input inverted
W	Trigger Input
W –	Ground for the Trigger Input
O	Analog Output
O –	Ground for the Analog Output
BZ	Block Discharge
AWV	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
SY –	Ground for the Synchronization
E+	Receiver-Line
S+	Emitter-Line
⊥	Grounding
S_nR	Switching Distance Reduction
Rx +/–	Ethernet Receive Path
Tx +/–	Ethernet Send Path
Bus	Interfaces-Bus A(+)/B(–)
La	Emitted Light disengageable
Mag	Magnet activation
RES	Input confirmation
EDM	Contactorm Monitoring

ENAR542Z	Encoder A/ $\bar{A}$ (TTL)
ENBR542Z	Encoder B/B (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
rsy	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

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