

Light Curtain
for Measuring Tasks

OSEB123Z0103

Part Number



- Test input

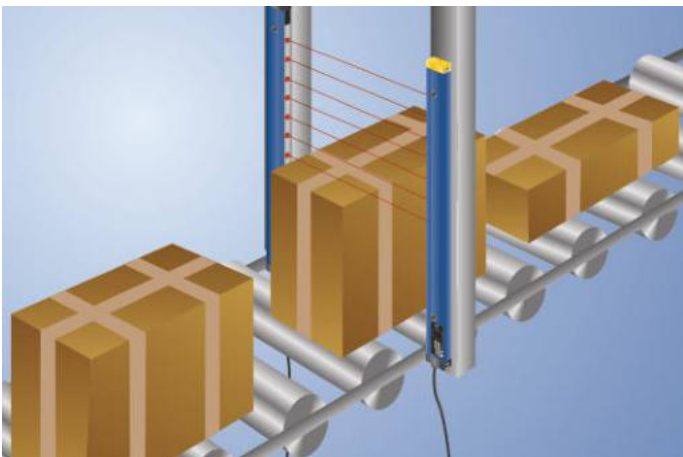
Technical Data

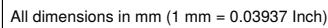
Optical Data	
Range	3000 mm
Measurement Field Height (MFH)	1200 mm
Beam Distance	30 mm
Light Source	Infrared Light
Service Life (T = +25 °C)	100000 h
Electrical Data	
Sensor Type	Emitter
Supply Voltage	18...30 V DC
Current Consumption (Ub = 24 V)	< 50 mA
Temperature Drift	< 10 %
Temperature Range	-25...60 °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

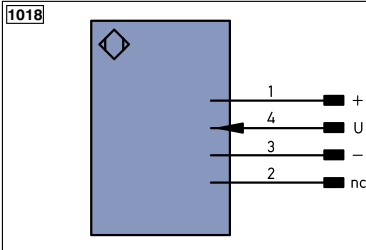
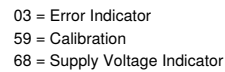
OEEB123U0135

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.





EB2



+	Supply Voltage +	Pt	Platform measuring resistor
−	Supply Voltage 0 V	nc	not connected
~	Supply Voltage (AC Voltage)	U	Test Input
Ū	Test Input inverted	Ū	Test Input inverted
A	Switching Output (NO)	W	Trigger Input
Ā	Switching Output (NC)	W−	Ground for the Trigger Input
V	Contamination/Error Output (NO)	O	Analog Output
Ī	Contamination/Error Output (NC)	O−	Ground for the Analog Output
E	Input (analog or digital)	BZ	Block Discharge
T	Teach Input	AWV	Valve Output
Z	Time Delay (activation)	a	Valve Control Output +
S	Shielding	b	Valve Control Output 0 V
RxD	Interface Receive Path	SY	Synchronization
TxD	Interface Send Path	SY−	Ground for the Synchronization
RDY	Ready	E+	Receiver-Line
GND	Ground	S+	Emitter-Line
CL	Clock	±	Grounding
E/A	Output/Input programmable	SnR	Switching Distance Reduction
	IO-Link	Rx+/-	Ethernet Receive Path
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)
QSSD	Safety Output	La	Emitted Light disengageable
Signal	Signal Output	Mag	Magnet activation
BL-D/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation
EN0 r5A22	Encoder 0-pulse 0-0° (TTL)	EDM	Contactor Monitoring

EN _A 5422	Encoder A/ $\bar{A}$ (TTL)
EN _B 5422	Encoder B/B (TTL)
EN _A	Encoder A
EN _B	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
rsv	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