

Light Curtain for Measuring Tasks

OSEI102Z0103

Part Number



● Test input

Technical Data

Optical Data

Range	2000 mm
Measurement Field Height (MFH)	100 mm
Beam Distance	2 mm
Light Source	Infrared Light
Service Life (T = +25 °C)	100000 h

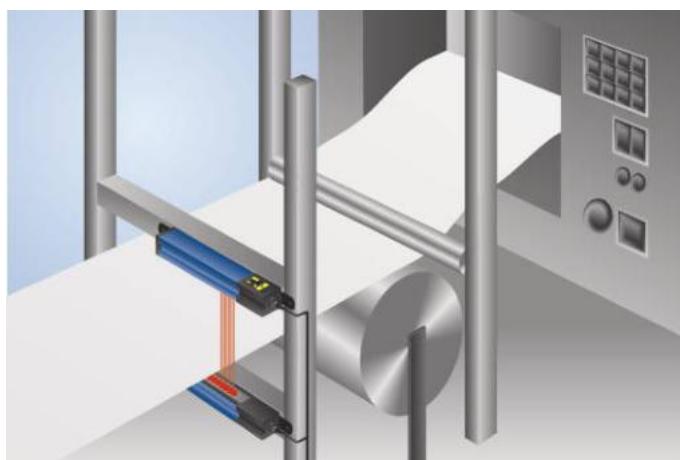
Electrical Data

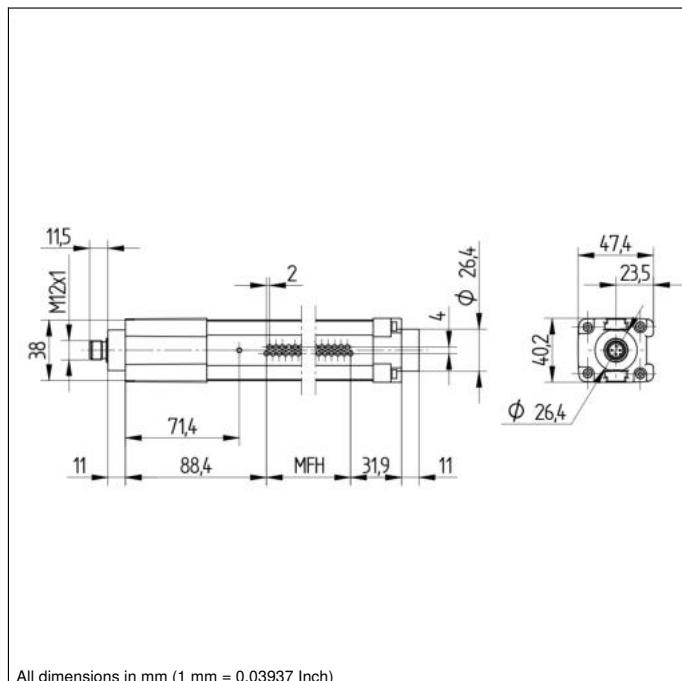
Sensor Type	Emitter
Supply Voltage	18...30 V DC
Current Consumption (Ub = 24 V)	< 60 mA
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Reverse Polarity Protection	yes
Test input	yes
Protection Class	III
Mechanical Data	
Housing Material	Aluminum
Degree of Protection	IP65
Connection	M12 x 1; 4-pin
Connection Diagram No.	1018
Control Panel No.	K3
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	700

Suitable Receiver

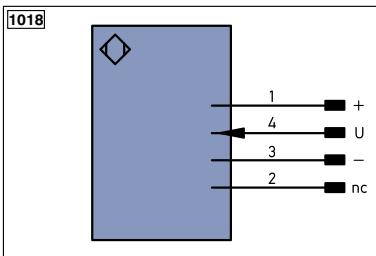
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As these light curtains for measurement task are equipped with an integrated evaluation unit, external connection units are not needed. Objects are both recognized (via the digital output) and measured (via the analog output). The light curtains can be set up easily using the menu-controlled graphic display. Convenient parametrization and quick diagnosis is possible via the IO-Link interface. The adequate mounting angle BEF-SET-33 is included in the delivery.





All dimensions in mm (1 mm = 0.03937 Inch)



Legend

+	Supply Voltage +	PT	Platinum measuring resistor
-	Supply Voltage 0 V	nc	not connected
-	Supply Voltage (AC Voltage)	U	Test Input
A	Switching Output (NO)	Ü	Test Input inverted
Ā	Switching Output (NC)	W	Trigger Input
V	Contamination/Error Output (NO)	W -	Ground for the Trigger Input
Ā	Contamination/Error Output (NC)	O	Analog Output
E	Input (analog or digital)	O -	Ground for the Analog Output
T	Teach Input	BZ	Block Discharge
Z	Time Delay (activation)	Aw	Valve Output
S	Shielding	a	Valve Control Output +
RxD	Interface Receive Path	b	Valve Control Output 0 V
TxD	Interface Send Path	SY	Synchronization
RDY	Ready	SY -	Ground for the Synchronization
GND	Ground	E+	Receiver-Line
CL	Clock	S+	Emitter-Line
E/A	Output/Input programmable	÷	Grounding
IO-Link		SnR	Switching Distance Reduction
PoE	Power over Ethernet	Rx +/-	Ethernet Receive Path
IN	Safety Input	Tx +/-	Ethernet Send Path
OSSD	Safety Output	Bus	Interfaces-Bus A(+)/B(-)
Signal	Signal Output	La	Emitted Light disengageable
Bi-D	Ethernet Gigabit bidirect. data line (A-D)	Mag	Magnet activation
Bi-D +/-		RES	Input confirmation
EN	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring
		ENaRS422	Encoder A/A (TTL)
		ENaRS422	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
		OL	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
		GN/YE	Green/Yellow

