Light Curtain for Measuring Tasks

OEEB183U0135

Part Number



- 360° visible switching status display
- Graphical display for easy operation
- Integrated evaluation unit
- Object detection and measurement

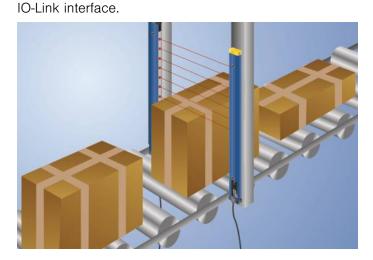
Technical Data

Optical Data	
Range	3000 mm
Measurement Field Height (MFH)	1800 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	1830 V DC
Current Consumption (Ub = 24 V)	< 50 mA
Switching Frequency	8 Hz
Response Time	62 ms
On-/Off-Delay	010 s
Temperature Drift	< 10 %
Temperature Range	-2560 °C
Number of Switching Outputs	2
Switching Output Voltage Drop	< 2,5 V
Switching Output/Switching Current	100 mA
Residual Current Switching Output	< 50 µA
Analog Output	010 V/420 mA
Short Circuit and Overload Protection	yes
Reverse Polarity Protection	yes
Lockable	yes
Interface	IO-Link V1.0
Protection Class	Ш
Mechanical Data	
Setting Method	Menu (OLED)
Housing Material	Aluminum
Degree of Protection	IP65
Connection	M12 × 1; 4/5-pin
Switchable to NC/NO	
Configurable as PNP/Push-Pull	\bullet
Error Output	
IO-Link	
Connection Diagram No.	188
Control Panel No.	EB3
Suitable Connection Equipment No.	2 35

Suitable Emitter

OSEB183Z0103

Display brightness may decrease with age. This does not result in any impairment of the sensor function.



As these light curtains for measurement tasks are equipped with an integrated evaluation unit, external connection units are not needed. Objects are both rec-

ognized (via the digital output) and measured (via the analog output). The light curtains can be set up easily

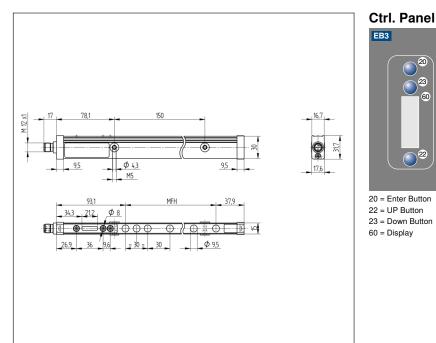
using the menu-controlled graphic display. Convenient parametrization and quick diagnosis is possible via the

Complementary Products

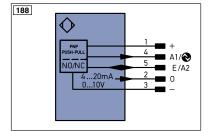
Analog Evaluation Unit AW02 IO-Link Master Software

Photoelectronic Sensors





All dimensions in mm (1 mm = 0.03937 Inch)



Leger	nd		PŤ	Platinum measuring resistor	ENAR5422	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected		Encoder B/B (TTL)
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENв	Encoder B
А	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX
V	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK
V		(NC)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		а	Valve Control Output +	м	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire Co	olors according to IEC 60757
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black
RDY	Ready		E+	Receiver-Line	BN	Brown
GND	Ground		S+	Emitter-Line		Red
CL	Clock		÷	Grounding		Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
0	IO-Link		Rx+/-		GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)		Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation		White
	Ethernet Gigabit bidirect. data	line (A-D)	RES	Input confirmation		Pink
EN0 RS42	2 Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow

60

