Light Curtain for Measuring Tasks

OEEB163U0135

Part Number



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

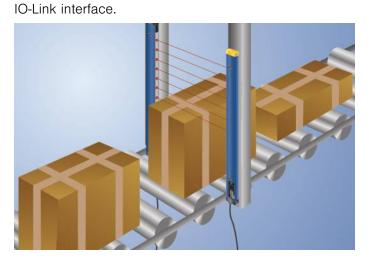
Technical Data

Optical Data			
Range	3000 mm		
Measurement Field Height (MFH)	1650 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)	< 40 mA		
Switching Frequency	9 Hz		
Response Time	57 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	III		
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			
Error Output			
IO-Link			
Connection Diagram No.	188		
Control Panel No.	EB3		
Suitable Connection Equipment No.	2 35		

Suitable Emitter

OSEB163Z0103

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

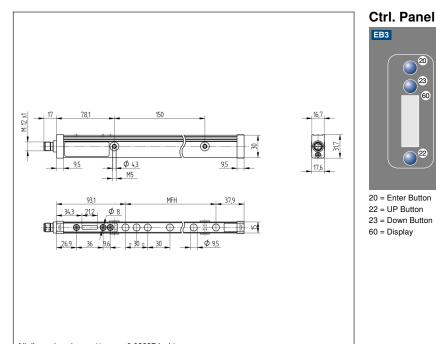
using the menu-controlled graphic display. Convenient parametrization and quick diagnosis is possible via the

Complementary Products

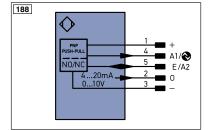
Analog Evaluation Unit AW02 IO-Link Master Software

Photoelectronic Sensors





All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d		PT	Platinum measuring resistor	ENA	saz Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENB	s422 Encoder B/B (TTL)
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B
А	Switching Output (NO)		W	Trigger Input	AMIN	Digital output MIN
Ā	Switching Output (NC)		W -	Ground for the Trigger Input	Ама	Digital output MAX
V	Contamination/Error Output (NO)		0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (NC)		0-	Ground for the Analog Output	SY I	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SYC	UT 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	Colors according to DIN IEC 757
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black
RDY	Ready		E+	Receiver-Line	BN	Brown
GND	Ground		S+	Emitter-Line	RD	Red
CL	Clock		÷	Grounding	OG	Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
0	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A-l	D)	RES	Input confirmation	PK	Pink
ENO RS422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GN'	^{′E} Green/Yellow

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