

Safety Light Curtain

Hand Protection

SEFG518

Part Number



The safety light curtain can be flexibly integrated into systems thanks to the well-conceived mounting technology and the compact housing. Alignment of the emitter and the receiver is simplified by the visible red light and the signal strength display. User-friendly wTeach2 software make settings and diagnosis via the IO-Link interface extremely easy. Settings can be subsequently saved to a microSD card and quickly duplicated on other products. Extensive blanking and muting functions ensure an ideal solution for every application, in order to safely transport objects into and out of the danger zone.



Technical Data

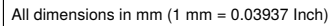
Optical Data	
Range	0,25...20 m
Housing Length (L)	1310 mm
Safety Field Height (SFH)	1211 mm
Resolution	30 mm
Light Source	Red Light
Wavelength	630 nm
Opening Angle	± 2,5 °
Electrical Data	
Sensor Type	Emitter
Supply Voltage	19,2...28,8 V DC
Current Consumption (Ub = 24 V)	≤ 100 mA
Response Time	14,4 ms
Temperature Range	-30...55 °C
Storage temperature	-30...70 °C
No. Safety Outputs (OSSDs)	2
Safety Output Voltage Drop	≤ 2,3 V
PNP Safety Output/Switching Current	≤ 300 mA
Number of Signal Outputs	1
Signal Output Voltage Drop	≤ 2,5 V
Signal Output/Switching Current	≤ 100 mA
Short Circuit and Overload Protection	yes
Interface	IO-Link V1.1
Protection Class	III
Mechanical Data	
Housing Material	Aluminum
Disc Material	Polycarbonate
Degree of Protection	IP65/IP67
Connection	M12 × 1; 5-pin
Safety-relevant Data	
ESPE Type (EN 61496)	4
Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Mission Time TM (EN ISO 13849-1)	20 a
Safety Integrity Level (EN 61508)	SIL3
Safety Integrity Level (EN 62061)	SILCL3
Function	
Hand Protection	yes
Connection Diagram No.	1031
Control Panel No.	A38
Suitable Connection Equipment No.	35
Suitable Mounting Technology No.	860 870 880

Suitable Receiver

SEFG618

Complementary Products

Protection column with Z2SU002 path-folding mirror
Protection columns with/without protective screen (Z2SS002/ Z2SM002)
Z0032 path-folding mirror



A38

68		03
8a		95
	23	
	20	

03 = Error Indicator
68 = Supply Voltage Indicator
8a = Coding
95 = Diagnosis/Large Detection Range

Legend		PT		Platinum measuring resistor		ENAS422		Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected			EN0F5422	Encoder B/B̄ (TTL)		
–	Supply Voltage 0 V	U	Test Input			ENa	Encoder A		
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted			ENb	Encoder B		
A	Switching Output (NO)	W	Trigger Input			AMIN	Digital output MIN		
Ā	Switching Output (NC)	W–	Ground for the Trigger Input			AMAX	Digital output MAX		
V	Contamination/Error Output (NO)	O	Analog Output			AOK	Digital output OK		
Ṽ	Contamination/Error Output (NC)	O–	Ground for the Analog Output			SY In	Synchronization In		
E	Input (analog or digital)	BZ	Block Discharge			SY OUT	Synchronization OUT		
T	Teach Input	AMV	Valve Output			0LT	Brightness output		
Z	Time Delay (activation)	a	Valve Control Output +			M	Maintenance		
S	Shielding	b	Valve Control Output 0 V			rsv	reserved		
RxD	Interface Receive Path	SY	Synchronization			Wire Colors 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			RD	Red		
CL	Clock	±	Grounding			OG	Orange		
E/A	Output/Input programmable	SnR	Switching Distance Reduction			YE	Yellow		
	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		
BL-D+/–	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation			PK	Pink		
EN0F5422	Encoder 0-pulse 0-0̄ (TTL)	EDM	Contactor Monitoring			GNYE	Green/Yellow		