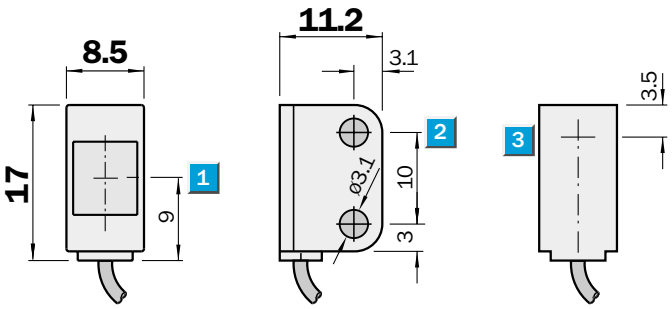
Scanning range
0…2.2 m

Through-beam photoelectric switches

- Ultra-miniature housing
- Large scanning range
- Extremely flexible connection cable
- Red light and LED signal strength indicator as alignment aids

Dimensional drawing

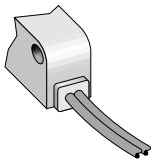


1 Centre of optical axis
2 Mounting hole ø 3.1 mm
3 LED indicator, red (sender only)
SS 130: active. Light reception by SE 130 receiver ≥ switching threshold

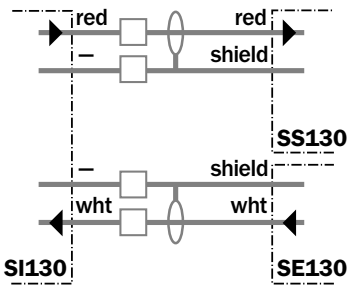
Mounting bracket BEF-130 ST for SS/SE 130-S 33, see accessories (included).

Connection type

SS/SE 130-S 33



2 x 0.8 mm² shielded



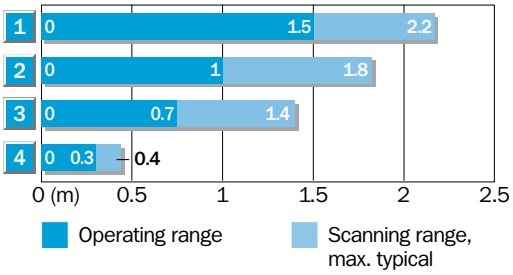
Accessories	page
Mounting brackets*	510
Slotted masks	556

* included with delivery

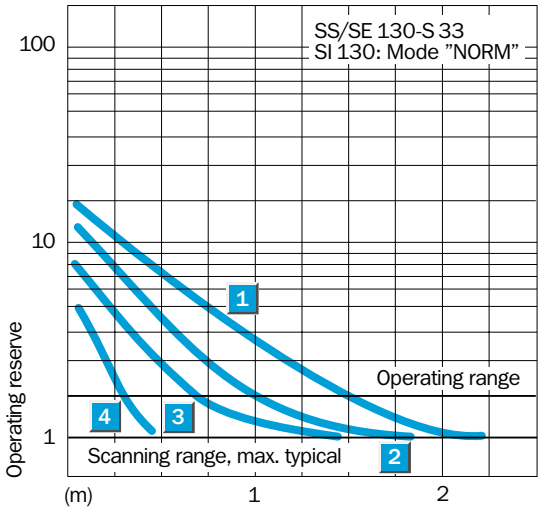
Technical data	SS/SE 130-	S 33
"Slim" housing (S)		
Scanning range, max. typical	2.2 m	
Operating range	1.5 m	
Operating range with mask, width 2.0 mm	1.0 m	
Operating range with mask, width 1.0 mm	0.7 m	
Operating range with mask, width 0.5 mm	0.3 m	
Light source[1], **light type**	LED, red light	
Light spot size	approx. 180 mm at 1.5 m	
Angle of dispersion, sender	approx. 7°	
Angle of dispersion, receiver	approx. 18°	
Supply voltage V_S	See SI 130, page 44	
Switching outputs	See SI 130, page 44	
Output current I_A max.	See SI 130, page 44	
Light receiver, switching mode	See SI 130, page 44	
Response time[2]	See SI 130, page 44	
Max. switching frequency[3]	See SI 130, page 44	
Connection type	PVC cable[4], 2 m (screened), (cannot be extended)	
VDE protection class	III	
Circuit protection[5]	A	
Enclosure rating	IP 66	
Ambient temperature T_A	Operation –25 °C...+55 °C	
	Storage –40 °C...+70 °C	
Weight with cable (2 m)	Sender: approx. 11 g	
	Receiver: approx. 11g	
Housing material	Housing: ABS/optics: PC	

1) Average service life 100,000 h at T_A = +25 °C
2) Signal transit time with resistive load
3) With light/dark ratio 1:1
4) Do not bend below 0 °C
5) A = V_S connections reverse-polarity protected

Scanning range and operating reserve



1	Without mask
2	With mask, 2 mm wide
3	With mask, 1 mm wide
4	With mask, 0.5 mm wide



Order information

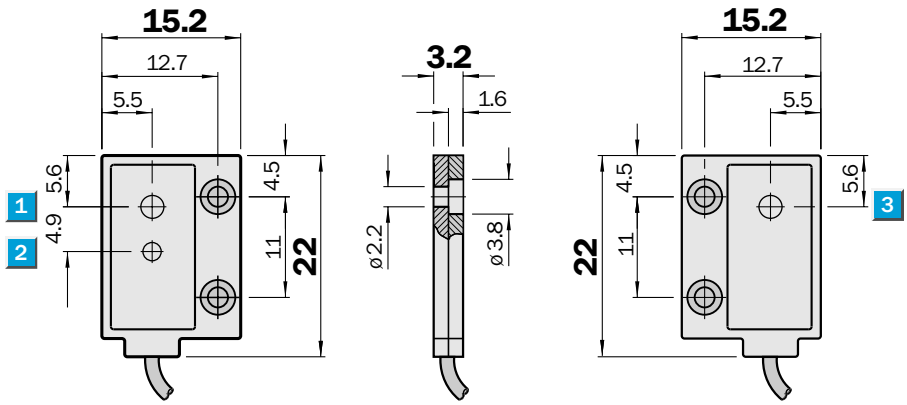
Type	Part no.
SS/SE 130-S 33	6 011 079

Scanning range
0…0.35 m

Through-beam photoelectric switches

- Ultra-miniature housing, mounting depth 3.2 mm
- Large scanning range
- Extremely flexible connection cable
- Red light and LED signal strength indicator as alignment aids

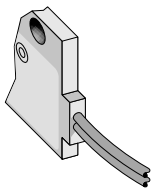
Dimensional drawing



1 Centre of transmitter's optical axis
2 LED indicator, red (sender only)
SS 130: active. Light reception by
SE 130 receiver ≥ switching threshold
3 Centre of receiver's optical axis

Connection type

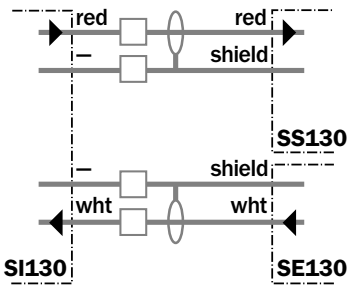
SS/SE 130-F 33



Accessories	page
Mounting brackets*	510

* included with delivery

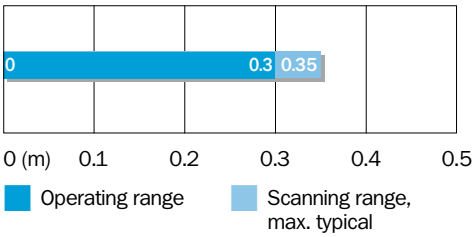
2 x 0.8 mm² shielded

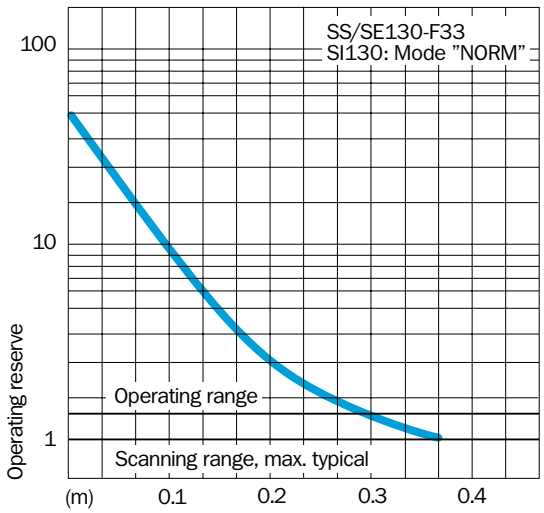


Technical data	SS/SE 130-	F 33									
"Flat" housing (F)											
Scanning range, max. typical	0.35 m										
Operating range	0.3 m										
Light source[1], **light type**	LED, red light										
Light spot size	Approx. 200 mm at 0.3 m										
Angle of dispersion, sender	Approx. 36°										
Angle of dispersion, receiver	Approx. 20°										
Power supply and evaluation unit	ST 130 only functional in combination										
	with separate interpreter (SI 130),										
	see page 44										
Supply voltage V_S	See SI 130, page 44										
Switching outputs	See SI 130, page 44										
Output current I_A max.	See SI 130, page 44										
Light receiver, switching mode	See SI 130, page 44										
Response time[2]	See SI 130, page 44										
Max. switching frequency[3]	See SI 130, page 44										
Connection type	PVC cable, 2 m[4] (screened),										
	(cannot be extended)										
VDE protection class	III										
Circuit protection[5]	A										
Enclosure rating	IP 66										
Ambient temperature T_A	Operation –25 °C...+55 °C										
	Storage –40 °C...+70 °C										
Weight with cable 2 m	Sender: approx. 11 g/										
	Receiver: approx. 11g										
Housing material	Housing: ABS/optics: PC										

1) Average service life 100,000 h at T_A = +25 °C
2) Signal transit time with resistive load
3) With light/dark ratio 1:1
4) Do not bend below 0 °C
5) A = V_S connections reverse-polarity protected

Scanning range and operating reserve





Order information

Type	Part no.
SS/SE 130-F 33	6 011 080