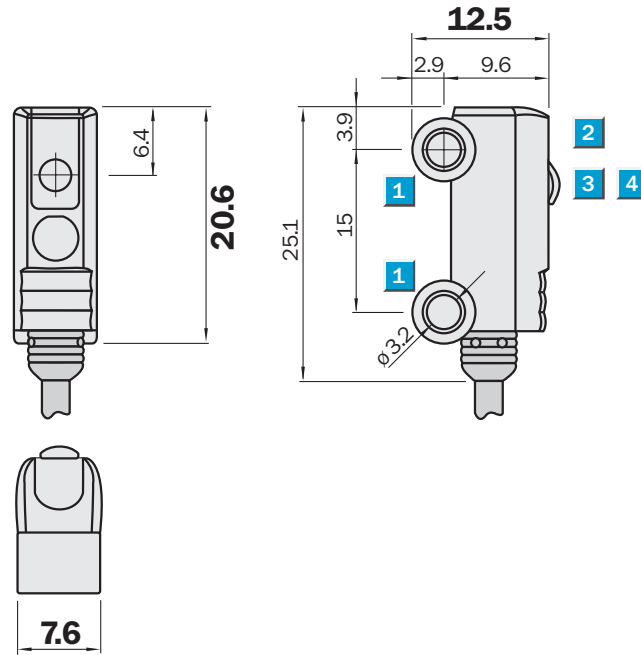


	Scanning range 1.2 m
Through-beam photoelectric switch	

- Excellent size/performance ratio
- Sturdy housing with metal sleeves for M 3 bolts

Dimensional drawing

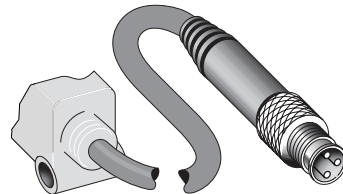
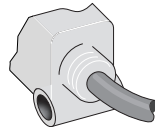


- 1 Mounting hole $\varnothing$ 3.2 mm
- 2 LED signal strength indicator
- 3 Optical axis, receiver
- 4 Optical axis, sender

Connection types

WS/WE 2S-F113
WS/WE 2S-E113

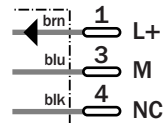
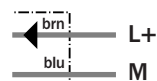
WS/WE 2S-F213



Sender

2 x 0.09 mm², $\varnothing$ 2.4 mm

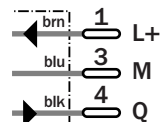
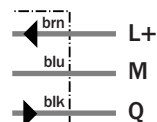
3-pin, M 8, 200 mm



Receiver

3 x 0.09 mm², $\varnothing$ 2.4 mm

3-pin, M 8, 200 mm



Accessories

- Connectors
- Mounting systems
- Mounting set of screws ¹⁾

¹⁾ included with delivery



Technical data		WS/WE 2S-	F 113	E 113	F 213							
Scanning range , typ. max.	1.2 m											
Light source ⁴⁾ , light type	Pin-Point LED, red light											
Light spot diameter	10 mm at 100 mm											
Supply voltage V_s	10 ... 30 V DC ²⁾											
Ripple ³⁾	< 5 V _{pp}											
Current consumption ⁴⁾	< 10 mA (WE), < 20 mA (WS)											
Switching outputs	PNP, $\bar{Q}$											
	NPN, $\bar{Q}$											
	Dark-switching											
Output current I_A max.	< 50 mA											
Response time ⁵⁾	< 2.5 ms											
Max. switching frequency ⁶⁾	200/s											
Connection types	Cable ⁷⁾ , 2 m											
	Cable ⁷⁾ , 200 mm with plug											
VDE protection class ⁸⁾	III											
Circuit protection ⁹⁾	A, B, C											
Enclosure rating	IP 67											
Ambient temperature	Operation – 20 °C ... + 50 °C											
	Storage – 40 °C ... + 75 °C											
Weight	With cable 36 g											
	With plug 40 g											
Housing material	ABS, PMMA											

¹⁾ Average service life 75.000 h
at $T_A = + 25\text{ °C}$

²⁾ Limit values

³⁾ May not exceed or fall short of
 V_s tolerances

⁴⁾ Without load

⁵⁾ Signal transit time with resistive load

⁶⁾ With light/dark ratio 1:1

⁷⁾ 2 m, PVC, 2.4 mm Ø, do not bend
below 0 °C

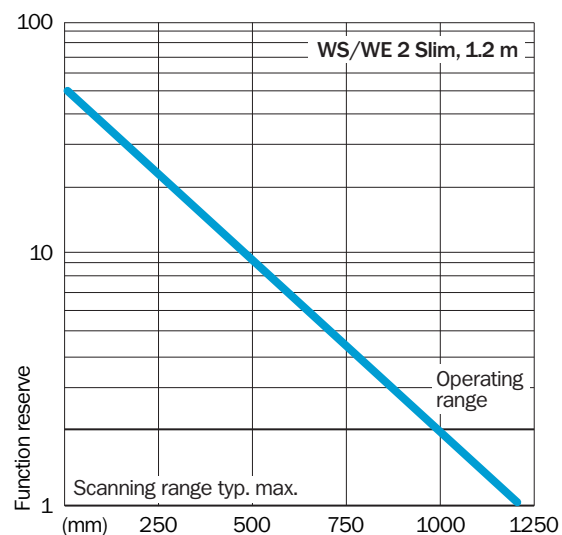
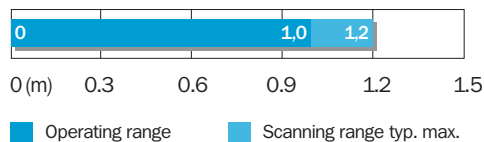
⁸⁾ Reference voltage 50 V

⁹⁾ A = V_s -connections reverse-polarity
protected

B = Output Q and $\bar{Q}$ reverse-polarity
protected

C = Interference pulse suppression

Operating range und function reserve



Order information

Type	Part no.
WS/WE 2S-F113	1 022 668
WS/WE 2S-E113	1 022 669
WS/WE 2S-F213	1 023 650