

# WLD4FP-313111A0ZZZ W4

**PHOTOELECTRIC SENSORS** 





## Ordering information

Туре	part no.
WLD4FP-313111A0ZZZ	1121475

Other models and accessories → www.sick.com/W4

Illustration may differ



#### Detailed technical data

#### **Features**

Functional principle detail  Sensing range  Sensing range min. Sensing range min. Maximum distance range from reflector to sensor (operating reserve 1) Recommended distance range from reflector to sensor (operating reserve 3,75) Reference reflector Recommended sensing range for the best performance  Polarisation filters  Emitted beam  Light source Type of light Shape of light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  With minimum distance to reflector (dual lens system)  0 m  4.5 m  0.015 m 4.5 m  0.035 m 3.9 m  Reflector P250  0.035 m 3.9 m  0.035 m 3.9 m  PinPoint LED  Visible red light Point-shaped  Ø 38 mm (1,000 mm)  ******* ********  **********  *******		
Sensing range Sensing range min. Sensing range max.  Maximum distance range from reflector to sensor (operating reserve 1)  Recommended distance range from reflector to sensor (operating reserve 3,75) Reference reflector Recommended sensing range for the best performance  Polarisation filters  Emitted beam  Light source Type of light Shape of light spot Size (distance) Light spot size (distance) Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)	Functional principle	Photoelectric retro-reflective sensor
Sensing range min. Sensing range max.  Maximum distance range from reflector to sensor (operating reserve 1)  Recommended distance range from reflector to sensor (operating reserve 3,75)  Reference reflector  Recommended sensing range for the best performance  Polarisation filters  Light source Type of light Shape of light spot  Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  A.5 m  4.5 m  0.015 m 4.5 m  0.035 m 3.9 m  Reflector P250  0.035 m 3.9 m  Ves  PinPoint LED Visible red light  Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)	Functional principle detail	With minimum distance to reflector (dual lens system)
Sensing range max.  Maximum distance range from reflector to sensor (operating reserve 1)  Recommended distance range from reflector to sensor (operating reserve 3,75)  Reference reflector Recommended sensing range for the best performance  Polarisation filters  Emitted beam  Light source Type of light Shape of light spot Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  4.5 m  0.015 m 4.5 m  0.035 m 3.9 m  8 cflector P250  0.035 m 3.9 m  7 yes  PinPoint LED  Visible red light Point-shaped  4.5 m  4.5 m  4.5 m  6.015 m 4.5 m  6.025 m 3.9 m  7 yes  PinPoint LED  Visible red light Point-shaped  4.5 m  4.5 m  6.015 m 4.5 m  6.025 m 3.9 m  6.035 m 3.9 m  7 yes  PinPoint LED  7 yes  PinPoint LED  7 yes  4.5 m  6.015 m 4.5 m  6.025 m 3.9 m  6.035 m 3.9 m  7 yes  PinPoint LED  7 yes  PinPoint LED  7 yes  1 in a fine fine fine fine fine fine fine fine	Sensing range	
Maximum distance range from reflector to sensor (operating reserve 1)  Recommended distance range from reflector to sensor (operating reserve 3,75)  Reference reflector Recommended sensing range for the best performance  Polarisation filters  Light source Type of light Shape of light spot Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  Maximum distance range from reflector to sensor (operating reserve 1)  0.015 m 4.5 m  0.035 m 3.9 m  Reflector P250  0.035 m 3.9 m  Yes  PinPoint LED  Visible red light Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)	Sensing range min.	0 m
Recommended distance range from reflector to sensor (operating reserve 3,75)  Reference reflector Recommended sensing range for the best performance  Polarisation filters  Light source Type of light Shape of light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  No.035 m 3.9 m  O.035 m 3.9 m  O.035 m 3.9 m  Pellector P250  O.035 m 3.9 m  O.035 m 3.9 m  Ves  PinPoint LED  Visible red light Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)	Sensing range max.	4.5 m
Reference reflector Recommended sensing range for the best performance  Polarisation filters  Emitted beam  Light source Type of light Shape of light spot Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  Reflector P250  0.035 m 3.9 m  Yes  PinPoint LED  Visible red light Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)		0.015 m 4.5 m
Recommended sensing range for the best performance  Polarisation filters  Yes  Emitted beam  Light source Type of light Shape of light spot Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  O.035 m 3.9 m  PinPoint LED  Visible red light Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)		0.035 m 3.9 m
Polarisation filters  Emitted beam  Light source Type of light Shape of light spot Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  Fin Point LED Visible red light Point-shaped Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)	Reference reflector	Reflector P250
Light source Type of light Shape of light spot Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  Might source PinPoint LED Visible red light Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23°C)		0.035 m 3.9 m
Light source Type of light Shape of light spot Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  PinPoint LED  Visible red light Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23°C)	Polarisation filters	Yes
Type of light  Shape of light spot  Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  Visible red light  Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)	Emitted beam	
Shape of light spot  Light spot size (distance)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)  Point-shaped  Ø 38 mm (1,000 mm)  < +/- 1.5° (at Ta = +23 °C)	Light source	PinPoint LED
Light spot size (distance) Ø 38 mm (1,000 mm)  Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)	Type of light	Visible red light
Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)	Shape of light spot	Point-shaped
around the standardized transmission axis (squint angle)	Light spot size (distance)	Ø 38 mm (1,000 mm)
Key LED figures	around the standardized transmission axis	< +/- 1.5° (at Ta = +23 °C)
	Key LED figures	

Normative reference	EN 62471:2008-09   IEC 62471:2006, modified
LED risk group marking	Free group
Wave length	635 nm
Average service life	100,000 h at $T_a = +25  ^{\circ}\text{C}$
Adjustment	
None	-
Display	
LED green	Operating indicator Static on: power on
LED yellow	Status of received light beam Static on: object not present Static off: object present Flashing: Below the 1.5 function reserve

## Safety-related parameters

MTTF <sub>D</sub>	1,390 years
<b>DC</b> <sub>avg</sub>	0 %
T <sub>M</sub> (mission time)	20 years

#### Electronics

Supply voltage U <sub>B</sub> 10 V DC 30 V DC 3		
Usage category       DC-12 (According to EN 60947-5-2) DC-13 (According to EN 60947-5-2)         Current consumption $\leq 20 \text{ mA}$ , without load. At $U_B = 24 \text{ V}$ Protection class         Digital output         Number Type         Switching mode       Dark switching         Signal voltage PNP HIGH/LOW       Approx. $U_B \geq 2.5 \text{ V} \neq 0.0 \text{ V}$ Signal voltage NPN HIGH/LOW       Approx. $U_B \geq 2.5 \text{ V} \neq 0.0 \text{ V}$ Output current $I_{max}$ . $\leq 100 \text{ mA}$ Reverse polarity protected       Overcurrent protected         Overcurrent protected       Short-circuit protected         Short-circuit protected $\leq 500 \text{ µs}$ 150 µs $^{20}$ $1,000 \text{ Hz}^{-3}$ Plin/Wire assignment	Supply voltage U <sub>B</sub>	10 V DC 30 V DC <sup>1)</sup>
DC-13 (According to EN 60947-5-2)  Current consumption  Protection class  III  Digital output  Number  Type Switching mode Signal voltage PNP HIGH/LOW Signal voltage NPN HIGH/LOW Output current I <sub>max.</sub> Circuit protection outputs  Reverse polarity protected Overcurrent protected Short-circuit protected  Response time Repeatability (response time) Switching frequency Switching frequency Switching frequency Switching frequency  Pin/Wire assignment  III  1  1  1  1  1  1  1  1  1  1  1	Ripple	≤ 5 V <sub>pp</sub>
Protection class  Digital output  Number Type Switching mode Signal voltage PNP HIGH/LOW Signal voltage NPN HIGH/LOW Output current I <sub>max.</sub> Circuit protection outputs Response time Repeatability (response time) Switching frequency Pin/Wire assignment  Number 1 Push-pull: PNP/NPN Dark switching Approx. U <sub>B</sub> −2.5 V / 0 V Approx. U <sub>B</sub> −2.5 V / 0 W Approx. U <sub>B</sub> / < 2.5 V Approx. U <sub>B</sub> / < 2	Usage category	, , , , , , , , , , , , , , , , , , ,
Number Type Push-pull: PNP/NPN  Switching mode Signal voltage PNP HIGH/LOW Approx. U <sub>B</sub> -2.5 V / 0 V  Signal voltage NPN HIGH/LOW Approx. U <sub>B</sub> / < 2.5 V  Output current I <sub>max.</sub> ≤ 100 mA  Circuit protection outputs Reverse polarity protected Overcurrent protected Short-circuit protected Short-circuit protected  Response time Repeatability (response time) Switching frequency  Switching frequency 1,000 Hz <sup>3)</sup> Pin/Wire assignment	Current consumption	$\leq$ 20 mA, without load. At U <sub>B</sub> = 24 V
Number Type Push-pull: PNP/NPN Switching mode Signal voltage PNP HIGH/LOW Approx. $U_B \cdot 2.5 \text{ V} / 0 \text{ V}$ Approx. $U_B \cdot 2.5 \text{ V}$ Appro	Protection class	III
Type Switching mode Dark switching Signal voltage PNP HIGH/LOW Approx. $U_B \cdot 2.5 \text{ V} / 0 \text{ V}$ Signal voltage NPN HIGH/LOW Approx. $U_B \cdot 2.5 \text{ V} / 0 \text{ V}$ Output current $I_{max.} \leq 100 \text{ mA}$ Reverse polarity protected Overcurrent protected Short-circuit protected $\leq 500 \text{ µs}$ Repeatability (response time) Switching frequency $1,000 \text{ Hz}^{3}$ Pin/Wire assignment	Digital output	
Switching mode Signal voltage PNP HIGH/LOW Approx. $U_B \cdot 2.5 \text{ V} / 0 \text{ V}$ Signal voltage NPN HIGH/LOW Approx. $U_B / < 2.5 \text{ V}$ Output current $I_{max} \le 100 \text{ mA}$ Circuit protection outputs Reverse polarity protected Overcurrent protected Short-circuit protected Short-circuit protected \$\$500 \mu s\$\$\$ 150 \mu s^2\$\$\$ 1,000 Hz^3\$\$\$\$	Number	1
Signal voltage PNP HIGH/LOW Approx. $U_{B}$ -2.5 V / 0 V Signal voltage NPN HIGH/LOW Approx. $U_{B}$ / < 2.5 V Output current $I_{max}$ . $\leq$ 100 mA Reverse polarity protected Overcurrent protected Short-circuit protected $\leq$ 500 $\mu$ s Repeatability (response time) 150 $\mu$ s $^{2}$ Switching frequency 1,000 Hz $^{3}$ Pin/Wire assignment	Туре	Push-pull: PNP/NPN
Signal voltage NPN HIGH/LOW Output current $I_{max}$ .  Circuit protection outputs Reverse polarity protected Overcurrent protected Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  Short-circuit protected  150 $\mu$ s  150 $\mu$ s  1700 Hz  1700 Hz  1700 Hz  1700 Hz	Switching mode	Dark switching
Output current $I_{max}$ . $\leq 100 \text{ mA}$ Circuit protection outputs Reverse polarity protected  Overcurrent protected  Short-circuit protected  Short-circuit protected  Expectability (response time)  Switching frequency  150 $\mu$ s $^{2}$ 1,000 Hz $^{3}$ Pin/Wire assignment	Signal voltage PNP HIGH/LOW	Approx. U <sub>B</sub> -2.5 V / 0 V
Circuit protection outputs Reverse polarity protected Overcurrent protected Short-circuit protected	Signal voltage NPN HIGH/LOW	Approx. $U_B / < 2.5 \text{ V}$
Overcurrent protected Short-circuit protected Short-circuit protected $ \begin{array}{c} \text{Response time} \\ \text{Response time} \end{array} \leq 500 \ \mu\text{s} \\ \text{Repeatability (response time)} \\ \text{Switching frequency} \end{array} \begin{array}{c} 150 \ \mu\text{s}^{\ 2)} \\ \text{1,000 Hz}^{\ 3)} \end{array} $	Output current I <sub>max.</sub>	≤ 100 mA
Short-circuit protected $ \begin{array}{c} \text{Response time} & \leq 500 \ \mu \text{s} \\ \text{Repeatability (response time)} & 150 \ \mu \text{s}^{2)} \\ \text{Switching frequency} & 1,000 \ \text{Hz}^{3)} \\ \end{array} $ Pin/Wire assignment	Circuit protection outputs	Reverse polarity protected
Response time $\leq 500 \ \mu s$ Repeatability (response time) $150 \ \mu s^{2}$ Switching frequency $1,000 \ Hz^{3}$ Pin/Wire assignment		Overcurrent protected
Repeatability (response time) 150 µs <sup>2)</sup> Switching frequency 1,000 Hz <sup>3)</sup> Pin/Wire assignment		Short-circuit protected
Switching frequency 1,000 Hz <sup>3)</sup> Pin/Wire assignment	Response time	≤ 500 µs
Pin/Wire assignment	Repeatability (response time)	150 μs <sup>2)</sup>
	Switching frequency	1,000 Hz <sup>3)</sup>
Function of pin 4/black (BK) Digital output, dark switching, object present → output Q HIGH <sup>4)</sup>	Pin/Wire assignment	
	Function of pin 4/black (BK)	Digital output, dark switching, object present $\rightarrow$ output Q HIGH $^{4)}$

 $<sup>^{1)}</sup>$  Limit values.  $^{2)}$  Signal transit time with resistive load in switching mode.

<sup>3)</sup> With light/dark ratio 1:1.

<sup>&</sup>lt;sup>4)</sup> This switching output must not be connected to another output.

#### Mechanics

Housing	Rectangular
Design detail	Flat
Dimensions (W x H x D)	16 mm x 40.1 mm x 12.1 mm
Connection	Cable with connector M8, 3-pin, 110 mm
Connection detail	
Deep-freeze property	Do not bend below 0 °C
Conductor size	0.14 mm <sup>2</sup>
Cable diameter	Ø 3.4 mm
Length of cable (L)	77 mm
Material	
Housing	Plastic, VISTAL®
Front screen	Plastic, PMMA
Cable	Plastic, PVC
Male connector	Plastic, VISTAL®
Weight	Approx. 30 g
Maximum tightening torque of the fixing screws	0.4 Nm

#### Ambient data

Enclosure rating	IP66 (EN 60529) IP67 (EN 60529) IP69 (EN 60529)
Ambient operating temperature	-40 °C +60 °C
Ambient temperature, storage	-40 °C +75 °C
Typ. Ambient light immunity	Artificial light: ≤ 50,000 lx Sunlight: ≤ 50,000 lx
Shock resistance	30 g, 11 ms (3 positive and 3 negative shocks along X, Y, Z axes, 18 total shocks (EN60068-2-27))
Vibration resistance	10 Hz 1,000 Hz (Amplitude 1 mm, 3 x 30 min (EN60068-2-6))
Air humidity	35 % 95 %, relative humidity (no condensation)
Electromagnetic compatibility (EMC)	EN 60947-5-2
Resistance to cleaning agent	ECOLAB
UL File No.	NRKH.E181493 & NRKH7.E181493

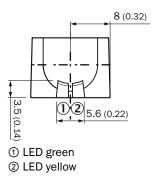
#### Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
ECOLAB certificate	✓
cULus certificate	✓
EAC certificate / DoC	✓

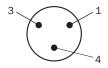
#### Classifications

ECLASS 5.0	27270902
ECLASS 5.1.4	27270902
ECLASS 6.0	27270902
ECLASS 6.2	27270902
ECLASS 7.0	27270902
ECLASS 8.0	27270902
ECLASS 8.1	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270904
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

## display and adjustment elements



## Connection type Connector M8, 3-pin



## Connection diagram Cd-514

## Truth table Push-pull: PNP/NPN - light switching Q

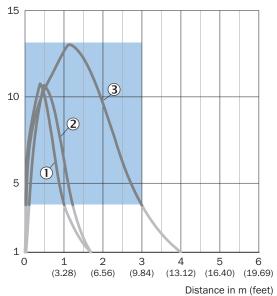
	Light switching Q (normally closed (upper switch), normally open (lower switch))		
	Object not present → Output HIGH	Object present → Output LOW	
Light receive	<b>⊘</b>		
Light receive indicator	<b>(0</b> ):		
Load resistance to L+		A	
Load resistance to M	A		
	+ (L+) Q - (M)	+ (L+) Q Q - (M)	

## Truth table Push-pull: PNP/NPN – dark switching $\bar{Q}$

	Dark switching $\overline{\mathbb{Q}}$ (normally open (upper switch), normally closed (lower switch))			
	Object not present → Output LOW	Object present → Output HIGH		
Light receive	<b>⊘</b>			
Light receive indicator	<b>:</b>			
Load resistance to L+	A			
Load resistance to M		A		
	+ (L+) Q - (M)	+ (L+) \(\overline{\text{Q}}\)		

## Characteristic curve Reflective tape

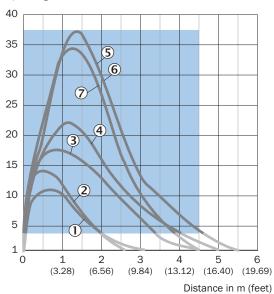
#### Operating reserve



- Recommended sensing range for the best performance
- ① Reflective tape REF-DG
- ② reflective tape REF-IRF-56
- 3 Reflective tape REF-AC1000

#### Characteristic curve Standard reflectors

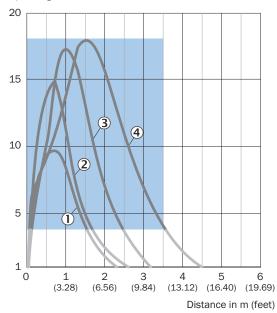




- Recommended sensing range for the best performance
- ① Reflector PL22
- ② Reflector PL20A
- 3 Reflector PL30A
- ④ Reflector PL40A
- ⑤ Reflector PL80A
- ® Reflector C110A
- 7 Reflector P250

#### Characteristic curve Fine triple reflectors



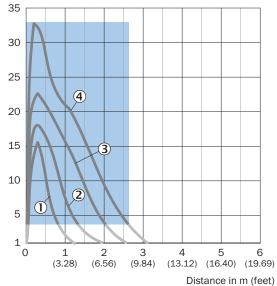


Recommended sensing range for the best performance

- ① PL10FH reflector
- ② PL10F reflector
- 3 Reflector PL20F
- 4 Reflector P250F

#### Characteristic curve Chemical-resistant reflectors

#### Operating reserve

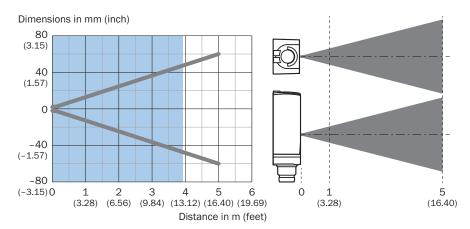


Recommended sensing range for the best performance

- ① PL10F CHEM reflector
- ② Reflector PL20 CHEM

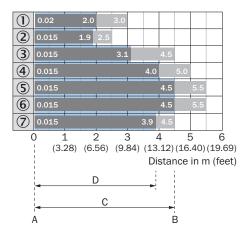
- 3 Reflector P250 CHEM
- 4 Reflector P250H

#### Light spot size



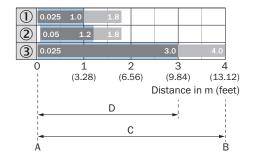
Recommended sensing range for the best performance

#### Sensing range diagram Standard reflectors



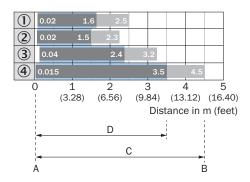
- A = Sensing range min. in m
- B = Sensing range max. in m
- C = Maximum distance range from reflector to sensor (operating reserve 1)
- D = Recommended distance range from reflector to sensor (operating reserve 3.75)
- Recommended sensing range for the best performance
- ① Reflector PL22
- ② Reflector PL20A
- 3 Reflector PL30A
- ④ Reflector PL40A
- S Reflector PL80A
- © Reflector C110A
- 7 Reflector P250

#### Sensing range diagram Reflective tape



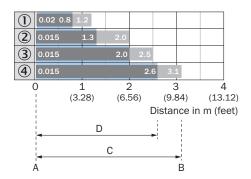
- A = Sensing range min. in m
- B = Sensing range max. in m
- C = Maximum distance range from reflector to sensor (operating reserve 1)
- D = Recommended distance range from reflector to sensor (operating reserve 3.75)
- Recommended sensing range for the best performance
- ① Reflective tape REF-DG (50 x 50 mm)
- 2 reflective tape REF-IRF-56
- 3 Reflective tape REF-AC1000

#### Sensing range diagram Fine triple reflectors



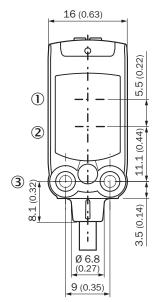
- A = Sensing range min. in m
- B = Sensing range max. in m
- C = Maximum distance range from reflector to sensor (operating reserve 1)
- D = Recommended distance range from reflector to sensor (operating reserve 3.75)
- Recommended sensing range for the best performance
- ① PL10FH reflector
- ② PL10F reflector
- 3 Reflector PL20F
- 4 Reflector P250F

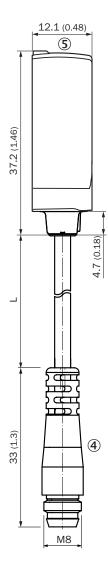
#### Sensing range diagram Chemical-resistant reflectors



- A = Sensing range min. in m
- B = Sensing range max. in m
- C = Maximum distance range from reflector to sensor (operating reserve 1)
- D = Recommended distance range from reflector to sensor (operating reserve 3.75)
- Recommended sensing range for the best performance
- ① PL10F CHEM reflector
- ② Reflector PL20 CHEM
- 3 Reflector P250 CHEM
- ④ Reflector P250H

## **Dimensional drawing**





Dimensions in mm (inch)

For length of cable (L), see technical data

- ① Center of optical axis, sender
- ② Center of optical axis, receiver
- ③ M3 mounting hole
- (4) cable with connector M8
- (5) display and adjustment elements

#### Recommended accessories

Other models and accessories → www.sick.com/W4

	Brief description	Туре	part no.		
Mounting syst	Mounting systems				
200	<ul> <li>Description: Mounting bracket for wall mounting</li> <li>Material: Stainless steel</li> <li>Details: Stainless steel 1.4571</li> <li>Items supplied: Mounting hardware included</li> <li>Suitable for: W4S, W4F, W4S</li> </ul>	BEF-W4-A	2051628		
N : Fill	<ul> <li>Description: Mounting bracket for floor mounting</li> <li>Material: Stainless steel</li> <li>Details: Stainless steel 1.4571</li> <li>Items supplied: Mounting hardware included</li> <li>Suitable for: W4S, W4F, W4S</li> </ul>	BEF-W4-B	2051630		
	<ul> <li>Description: Plate N08 for universal clamp bracket</li> <li>Material: Steel, zinc diecast</li> <li>Details: Zinc plated steel (sheet), Zinc die cast (clamping bracket)</li> <li>Items supplied: Universal clamp (5322626), mounting hardware</li> <li>Usable for: W100, W150, W4S, W4F, W8, W9-3, W8G, W8 Laser, W8 Inox, G6, W100 Laser, W100-2, W10, G6 Inox, RAY10, W4SLG-3, W9, GR18, MultiPulse, Reflex Array, MultiLine, LUT3, KT5, KT8, KT10, CS8</li> </ul>	BEF-KHS-N08	2051607		
reflectors and	optics				
	<ul> <li>Description: Fine triple reflector, screw connection, suitable for laser sensors</li> <li>Dimensions: 20 mm 32 mm</li> <li>Ambient operating temperature: -30 °C +65 °C</li> </ul>	PL10F	5311210		
connectors ar	nd cables				
O C	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals, Uncontaminated zones</li> </ul>	YF8U13-050VA1XLEAX	2095884		
	<ul> <li>Connection type head A: Male connector, M8, 3-pin, straight, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	STE-0803-G	6037322		
	Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YF8U13-050UA1XLEAX	2094788		

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

## **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

