W8 Inox Miniature photoelectric sensors

Highly resistant – Tough stainless steel and fluid-tight construction combined



Minimum effort, maximum resistance and endless possibilities

The W8 Inox is one of the smallest sensors in SICK's miniature photoelectric sensors portfolio. Thanks to the quality of the materials used and sophisticated LED technology, the sensor provides a wide range of application solution possibilities. The sensor uses M3 mounting threads to ensure it is compatible with commercially available mounting systems. The W8 Inox therefore excels, on the one hand, due to its minimum mounting effort and, on the other hand, due to its maximum resistance and variance. The four models – through-beam photoelectric sensors, energetic photoelectric proximity sensors and photoelectric proximity sensors with background suppression (BGS) – provide a convincing solution for customers worldwide.



Feels at home in the pharmaceutical industry

Machines used in this industry, and all of their components must work perfectly in wet surroundings. However, it is not the moisture which poses a challenge, but rather the daily highpressure cleaning of the systems in combination with high thermal and mechanical loads. You can use the W8 Inox without hesitation wherever you need to use chemicals to prevent bacteria and microorganisms.

In a sterile working environment machines have to be disinfected daily. Cleaning agents and disinfectants require a sensor with a high-quality stainless steel housing and maximum resistance. The W8 Inox helps you keep to the prescribed cleaning schedules without constant machine downtime.

Identification of bread rolls

Checking the presence of meat balls

Monitoring a cream cheese packing



Identification of pharmaceuticals



Machining centers are sophisticated work environments for optical sensors. This is due to the use of cooling lubricants, which influence the machine components directly or as fog as well as hot/glowing chips flying about in the machine. Rely on the W8 Inox and minimize machine downtime.



Verify the presence of machine tools inside the storage area to prevent collision Tool inspection prior to machine start

Safety has numerous facets ...



toelectric sensor, energetic photoelectric proximity sensor and photoelectric proximity sensor with background suppression. This transparent plastic is resistant even to acrid cleaning agents and disinfectants at high temperatures and is considerably sturdier than the frequently used PMMA. Its relatively low water absorption level is also impressive, which makes the lens highly leakproof in addition to its sturdiness. All of the mentioned types of plastic are suitable for use in food processing.

The 1.4404 (316L) stainless steel used is highly convincing due to its high resistance to rust and acid. In addition to its strength properties, which allow it to be used in rough ambient conditions.

Sodium hydroxide

Citric, acetic and formic acid

Isopropanol, benzine and meth-

Hydraulic oil, drilling emulsion

P3-topax 66

ylated spirits

Conventional cleaning agent

of food

Cleaning agent containing chlorine,

Substances used for the production

Used for machine tool engineering,

for example as cooling lubricant

used in the meat and food sector

Solvents for removing grease



Minimum required installation

Longsome installations belong to the past. This is ensured by the typical industrial mounting systems with M3 screws and simple 3-step documentation.

High reliability

The sensor's IP 69K protection class is the result of a sophisticated design and outstanding materials. It enables the W8 Inox to easily endure high-pressure cleaning processes with chemicals used to counter-act bacteria and microorganisms in the food industry. This washdown does not impair the availability of the sensors.



Wide range of versions

It's the first time that miniature sensors are available both as energetic photoelectric proximity sensors and sensors with BGS at SICK. Furthermore, the photoelectric proximity sensor is available with BGS in short range and long range. A 300 mm cable plug is provided as a standard feature for all models.

Concentration	Load duration	Result
30 %	24 hours at room temperature	Passed 1)
5 %	24 hours at 60 °C	Passed 1)
5 %	21 days at 50 °C	Passed 1)
5 %	24 hours at room temperature	Passed 1)
	24 hours at room temperature	Passed 1)
	24 hours at room temperature	Passed 1)
al pressure in its cable	after the test All joining and con	nection points

¹⁾ Test criteria for "passed": the sensor is subjected to 0.5–1.0 bar internal pressure in its cable after the test. All joining and connection points must not exhibit any noticeable sealing deficiencies and the sensor electronics must not have any malfunctions.

Photoelectric proximity sensor, WTB8 Inox, BGS, long range, types including accessories



Sensing distance

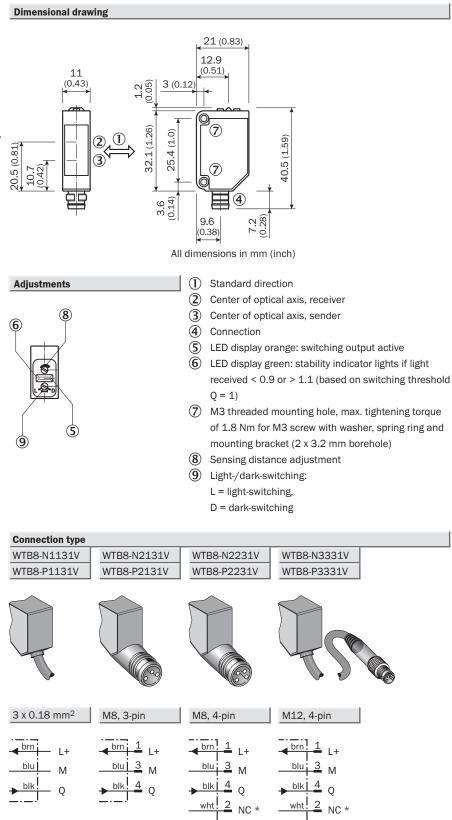
Photoelectric proximity sensor

- Tough stainless steel housing 1.4404/ 316L with IP 69K enclosure rating
- Lens made of heat and chemical resistant high-performance plastic – PPSU
- Potentiometer made of sturdy high performance plastic – PEEK
- Conforms to FDA requirements
- M3 threaded mounting hole and stainless steel mounting bracket (1.4301/304)





Accessories
Round connector
Mounting systems
Universal clamp system



* NC - not connected

Technical data

WTB8- N1131V N2131V N2231V N3331V P1131V P2131V P2231V P3331V

		i and	1		
Sensing distance, typ. max.	10 500 mm ¹⁾				_
Adjustable BGS	30 300 mm ¹⁾				
BGS setting	Potentiometer, 4 revolutions				
Light sender, type of light	LED, red light, 650 nm ²⁾				
Light spot diameter	Approx. 22 mm at a distance of 300 mm				
Supply voltage V _S	10 30 V DC ³⁾				
Residual ripple	± 10 % ⁴⁾				
Power consumption	≤ 30 mA ⁵⁾				
Switching outputs	NPN: open collector: Q				
	PNP: open collector: Q				
PNP signal voltage (HIGH/LOW)	U _V – 1.8 V/approx. 0 V				
NPN signal voltage (HIGH/LOW)	Approx. U _V /< 1.8 V				
Operating mode	Light/dark with rotary switch				
Output current I _A max.	100 mA				
Response time	≤ 0.5 ms ⁶⁾				
Switching frequency	1,000 Hz ⁷⁾				
Connection type	Cable, PVC, 2 m ⁸⁾				
	Plug connection, M8, 3-pin				
	Plug connection, M8, 4-pin				
	Cable plug, 300 mm, M12, 4-pin				
Protection class					
Protective circuits	Uv connections reverse polarity protected/				
	outputs reverse polarity protected/outputs				
	overcurrent and short-circuit protected				
Enclosure rating	IP 66, IP 67, IP 68, IP 69K				
Ambient temperature	Operation -30 °C +60 °C ⁹⁾				
	Warehouse -40 °C +70 °C ⁹⁾				
Weight	83.6 g				
Housing material	1.4404/316L				
Included in delivery	Stainless steel mounting bracket				
-	(1.4301/304) BEF-W100-A				

(based on standard white DIN-5033) 2) Average service life 100,000 h at $T_A = +25 °C$

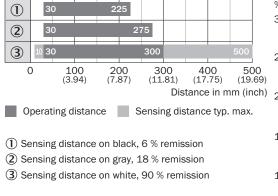
arity pro operation in short-circuit-protected

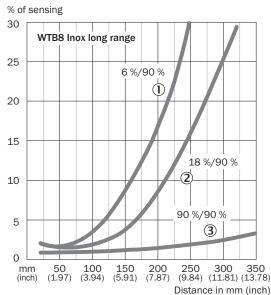
network max. 8 A

5) Without load 6) Signal transit time with resistive load ⁸⁾ Do not bend below 0 °C. 9) Air humidity of 35 % ... 95 %

.

Sensing distance





tolerances

ion
Part no.
6041461
6041462
6041463
6041464
6041465
6041466
6041467
6041468

1

9

Photoelectric proximity sensor, WTB8 Inox, BGS, short range, types including accessories



Sensing distance 5 ... 150 mm

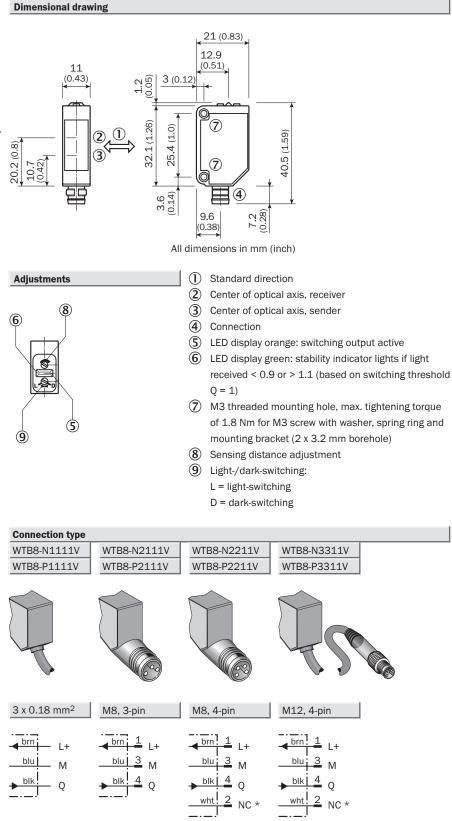
Photoelectric proximity sensor

- Tough stainless steel housing 1.4404/ 316L with IP 69K enclosure rating
- Lens made of heat and chemical resistant high-performance plastic – PPSU
- Potentiometer made of sturdy high performance plastic – PEEK
- Conforms to FDA requirements
- M3 threaded mounting hole and stainless steel mounting bracket (1.4301/304)





Accessories
Round connectors
Mounting systems
Universal clamp system



* NC - not connected

Technical data

WTB8- N1111V N2111V N2211V N3311V P1111V P2111V P2211V P3311V

Sensing distance, typ. max.	5 150 mm ¹⁾				
Adjustable BGS	20 100 mm ¹⁾				
BGS setting	Potentiometer, 4 revolutions				
Light sender, type of light	LED, red light, 650 nm ²⁾				
Light spot diameter	Approx. 8 mm at a distance of 100 mm				
Supply voltage V _S	10 30 V DC ³⁾				
Residual ripple	± 10 % ⁴⁾				
Power consumption	≤ 30 mA ⁵⁾				
Switching outputs	NPN: open collector: Q				
	PNP: open collector: Q				
PNP signal voltage (HIGH/LOW)	U _V - 1.8 V/approx. 0 V				
NPN signal voltage (HIGH/LOW)	Approx. U _V /< 1.8 V				
Operating mode	Light/dark with rotary switch				
Output current I _A max.	100 mA				
Response time	≤ 0.5 ms ⁶⁾				
Switching frequency	1,000 Hz ⁷⁾				
Connection type	Cable, PVC, 2 m ⁸⁾				
	Plug connection, M8, 3-pin				
	Plug connection, M8, 4-pin				
	Cable plug, 300 mm, M12, 4-pin				
Protection class					
Protective circuits	U _V connections reverse polarity protected/				
	outputs reverse polarity protected/outputs				
	overcurrent and short-circuit protected				
Enclosure rating	IP 66, IP 67, IP 68, IP 69K				
Ambient temperature	Operation -30 °C +60 °C ⁹⁾				
	Warehouse -40 °C +70 °C ⁹⁾				
Weight	83.6 g				
Housing material	1.4404/316L				
Included in delivery	Stainless steel mounting bracket				
	(1.4301/304) BEF-W100-A				

(based on standard white DIN-5033) ²⁾ Average service life 100,000 h at $T_A = +25$ °C

3) Limit values, reverse polarity protected operation in short-circuit-protected network max. 8 A

tolerances

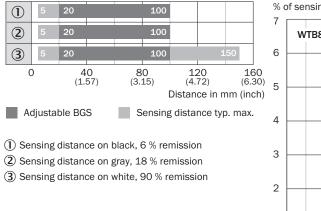
Without load Signal transit time with resistive load

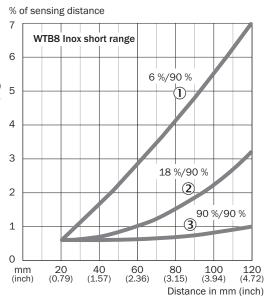
6)

⁹⁾ Air humidi

⁸⁾ Do not bend below 0 °C.
 ⁹⁾ Air humidity of 35 % ... 95 %

Sensing distance





Ordering information							
Model name	Part no.						
WTB8-N1111V	6041453						
WTB8-N2111V	6041454						
WTB8-N2211V	6041455						
WTB8-N3311V	6041456						
WTB8-P1111V	6041457						
WTB8-P2111V	6041458						
WTB8-P2211V	6041459						
WTB8-P3311V	6041460						

Photoelectric proximity sensor, WTE8 Inox, energetic, types including accessories

Dimensional drawing



Sensing distance

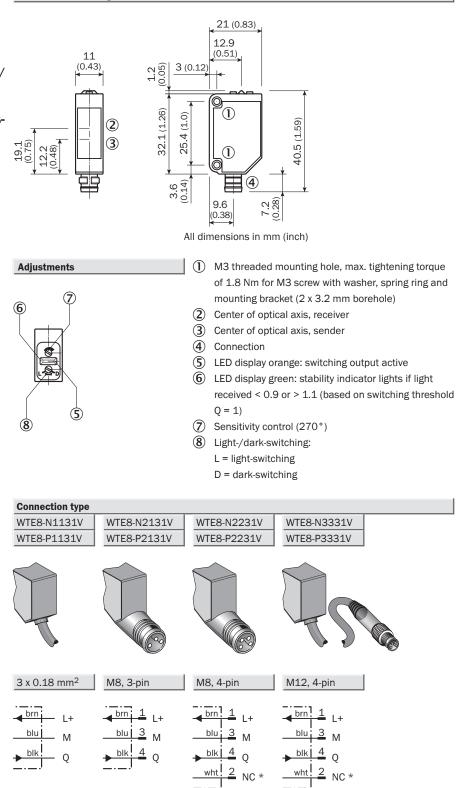
Photoelectric proximity sensor

- Tough stainless steel housing 1.4404/ 316L with IP 69K enclosure rating
- Lens made of heat and chemical resistant high-performance plastic – PPSU
- Potentiometer made of sturdy high performance plastic – PEEK
- Conforms to FDA requirements
- M3 threaded mounting hole and stainless steel mounting bracket (1.4301/304)





Accessories	
Round connectors	
Mounting systems	
Universal clamp system	



* NC - not connected

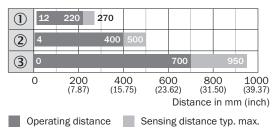
Technical data

WTE8- N1131V N2131V N2231V N3331V P1131V P2131V P2231V P3331V

Sensing distance, typ. max.	0 950 mm					
Operating distance	0 700 mm ¹⁾					
Operating distance setting	Potentiometer					
Light sender, type of light	LED, red light, 645 nm ²⁾					
Light spot diameter	Approx. 35 mm at a distance of 700 mm					
Aperture angle	Approx. 3°					
Supply voltage V _S	10 30 V DC ³⁾					
Residual ripple	± 10 % ⁴⁾					
Power consumption	≤ 30 mA ⁵⁾					
Switching outputs	NPN: open collector: Q					-
	PNP: open collector: Q					
PNP signal voltage (HIGH/LOW)	U _V – 1.8 V/approx. 0 V					
NPN signal voltage (HIGH/LOW)	Approx. $U_V < 1.8 V$					-
Operating mode	Light/dark with rotary switch					
Output current I _A max.	100 mA					
Response time	≤ 0.5 ms ⁶⁾					
Switching frequency	1,000 Hz ⁷)					
Connection type	Cable, PVC, 2 m ⁸⁾					-
	Plug connection, M8, 3-pin					
	Plug connection, M8, 4-pin					
	Cable plug, 300 mm, M12, 4-pin					
Protection class						
Protective circuits	U_{V} connections reverse polarity protected/					
	outputs reverse polarity protected/outputs					
	overcurrent and short-circuit protected					
Enclosure rating	IP 66, IP 67, IP 68, IP 69K					
Ambient temperature	Operation -30 °C +60 °C ⁹⁾					
	Warehouse -40 °C +70 °C $^{9)}$					
Weight (net)	83.6 g					
Housing material	1.4404/316L					
Included in delivery	Stainless steel mounting bracket					
	(1.4301/304) BEF-W100-A					

1) Objects with 90 % remission (based on standard white DIN-5033) Average service life 100,000 h at $T_A = +25$ °C 2)

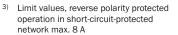
Sensing distance and functional reserves



① Sensing distance on black, 6 % remission

(2) Sensing distance on gray, 18 % remission

(3) Sensing distance on white, 90 % remission



% of functional reserves

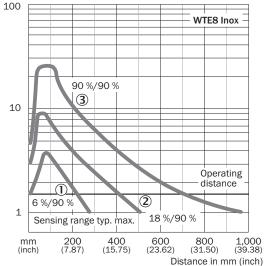
4) May not exceed or fall short of V_S tolerances 5)

Without load

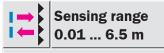
6) Signal transit time with resistive load 7) With light/dark ratio 1:1

⁸⁾ Do not bend below 0 °C.
⁹⁾ Air humidity of 35 % ... 95 %

Ordering informat	ion
Model name	Part no.
WTE8-N1131V	6041469
WTE8-N2131V	6041470
WTE8-N2231V	6041471
WTE8-N3331V	6041472
WTE8-P1131V	6041473
WTE8-P2131V	6041474
WTE8-P2231V	6041475
WTE8-P3331V	6041476



Photoelectric retro-reflective sensor, WL8 Inox, types including accessories



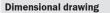
Photoelectric retro-reflective sensor

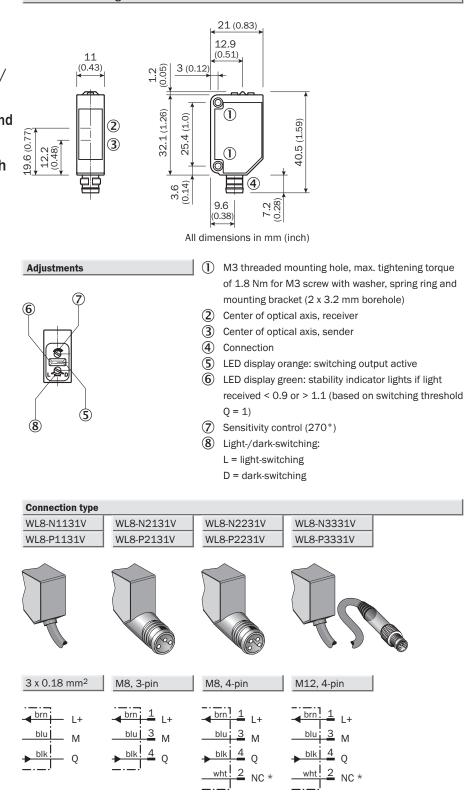
- Tough stainless steel housing 1.4404/ 316L with IP 69K enclosure rating
- Lens made of PMMA with a scratch- and abrasion-resistant SiO₂ nano coating
- Potentiometer made of sturdy high performance plastic – PEEK
- Conforms to FDA requirements
- M3 threaded mounting hole, stainless steel mounting bracket (1.4301/304) and P250 reflector





Accessories	
Round connectors	
Reflectors	
Special reflectors	
Mounting systems	
Universal clamp system	





* NC - not connected

Technical data

WL8- N1131V N2131V N2231V N3331V P1131V P2131V P2231V P3331V

0.01 4.5 m								
P250 reflector								
LED, red light, 645 nm ¹⁾								
Approx. 245 mm at a distance of 4.5 m								
Approx. 3°								
\checkmark								
10 30 V DC ²)								
± 10 % ³⁾								
≤ 30 mA ⁴)								
NPN: open collector: Q								
PNP: open collector: Q								
U _V – 1.8 V/approx. 0 V								
Approx. $U_V / < 1.8 V$								
Light/dark with rotary switch								
100 mA								
≤ 0.5 ms ⁵⁾								
1,000 Hz ⁶⁾								
Cable, PVC, 2 m ⁷)								
Plug connection, M8, 3-pin								
Plug connection, M8, 4-pin								
Cable plug, 300 mm, M12, 4-pin								
Uv connections reverse polarity protected/								
outputs reverse polarity protected/outputs								
overcurrent and short-circuit protected								
IP 66, IP 67, IP 68, IP 69K								
Operation -30 °C +60 °C ⁸⁾								
Warehouse -40 °C +70 °C ⁸⁾								
83.6 g								
1.4404/316L								
Stainless steel mounting bracket								
(1.4301/304) BEF-W100-A, P250 reflector								
	P250 reflector LED, red light, 645 nm ¹) Approx. 245 mm at a distance of 4.5 m Approx. 3° ✓ 10 30 V DC ²) ± 10 % ³) ≤ 30 mA ⁴) NPN: open collector: Q PNP: open collector: Q U _V - 1.8 V/approx. 0 V Approx. U _V /< 1.8 V Light/dark with rotary switch 100 mA ≤ 0.5 ms ⁵) 1,000 Hz ⁶) Cable, PVC, 2 m ⁷) Plug connection, M8, 3-pin Plug connection, M8, 4-pin Cable plug, 300 mm, M12, 4-pin $\langle ii \rangle$ U _V connections reverse polarity protected/ outputs reverse polarity protected/ outputs reverse polarity protected/ outputs reverse polarity protected IP 66, IP 67, IP 68, IP 69K Operation -30 ° C +60 ° C ⁸) Warehouse -40 ° C +70 ° C ⁸) 83.6 g 1.4404/316L Stainless steel mounting bracket	P250 reflectorLED, red light, 645 nm 1)Approx. 245 mm at a distance of 4.5 mApprox. 3°✓10 30 V DC 2)± 10 % 3)≤ 30 mA 4)NPN: open collector: QPNP: open collector: QU _V - 1.8 V/approx. 0 VApprox. U _V /< 1.8 V	P250 reflectorImage: steel mounting bracketLED, red light, 645 nm 1)Image: steel mounting bracketApprox. 245 mm at a distance of 4.5 mImage: steel mounting bracketApprox. 3°Image: steel mounting bracket \checkmark Image: steel mounting bracketApprox. 3°Image: steel mounting bracket \checkmark Image: steel mounting bracketApprox. 245 mm at a distance of 4.5 mImage: steel mounting bracketApprox. 245 mm at a distance of 4.5 mImage: steel mounting bracketApprox. 3°Image: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketApprox. 245 mm at a distance of 4.5 mImage: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracket	P250 reflectorImage: style interval and interval a distance of 4.5 mApprox. 245 mm at a distance of 4.5 mImage: style interval and int	P250 reflectorImage: second seco	P250 reflectorImage: constraint of the second	P250 reflectorImage: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketLED, red light, 645 nm 1)Image: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketApprox. 245 nm at a distance of 4.5 mImage: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketApprox. 245 nm at a distance of 4.5 mImage: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketApprox. 245 nm at a distance of 4.5 mImage: steel mounting bracketImage: steel mounting bracketImage: steel mounting bracketID0 mAImage: steel mounting bracketImage: steel mounting bracket	P250 reflector Image: constraint of the second

 $T_A = +25 °C$

2) Limit values, reverse polarity protected operation in short-circuit-protected network max. 8 A

tolerances

Ordering information

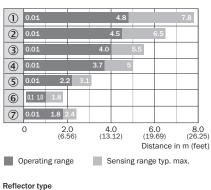
7) Do not bend below 0 °C.

5)

4)

Without load Signal transit time with resistive load

Sensing range and functional reserves



PL80A

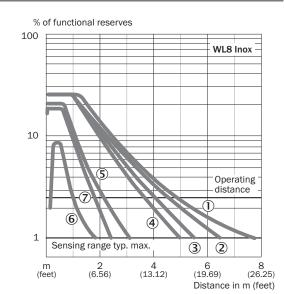
(2) P250

③ PL40A

(4) PL30A

(5) PL20A

6 Reflective tape "Diamond Grade" ⑦ P45A

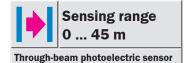


Model name	Part no.
WL8-N1131V	6041477
WL8-N2131V	6041478
WL8-N2231V	6041479
WL8-N3331V	6041480
WL8-P1131V	6041481
WL8-P2131V	6041482
WL8-P2231V	6041483
WL8-P3331V	6041484

⁶⁾ With light/dark ratio 1:1

 $^{^{8)}}$ Air humidity of 35 % ... 95 %

Through-beam photoelectric sensor, WSE8 Inox, types including accessories

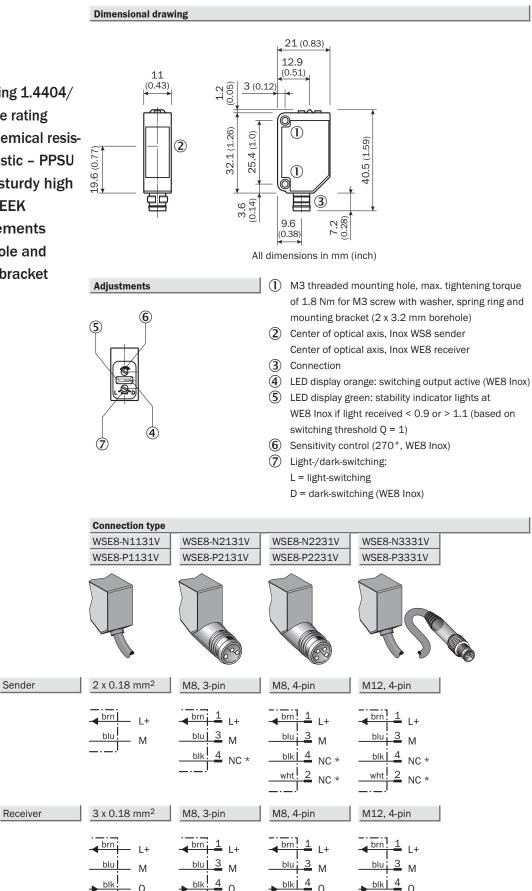


- Tough stainless steel housing 1.4404/ 316L with IP 69K enclosure rating
- Lens made of heat and chemical resistant high-performance plastic - PPSU
- Potentiometer made of sturdy high performance plastic - PEEK
- Conforms to FDA requirements
- M3 threaded mounting hole and stainless steel mounting bracket (1.4301/304)



CE		

Accessories			
Round connectors			
Mounting systems			
Universal clamp system			



2 NC *

0

* NC - not connected

16 W8 INOX | SICK

N1131V N2131V N2231V N3331V P1131V P2131V P2231V P3331V WSE8-**Technical data** Sensing range, typ. max. 0 ... 45 m 0 ... 20 m **Operating range, recommended** Sensitivity setting Potentiometer LED, red light, 645 nm ¹⁾ Light sender, type of light Approx. 900 mm at a distance of 20 m Light spot diameter Aperture angle Approx. 2.5° Receiving angle Approx. 15° 10 ... 30 V DC 2) Supply voltage Vs Residual ripple ± 10 % ³⁾ Power consumption, sender ≤ 15 mA ⁴) Power consumption, receiver ≤ 20 mA Switching outputs NPN: open collector: Q PNP: open collector: Q PNP signal voltage (HIGH/LOW) U_V - 1.8 V/approx. 0 V NPN signal voltage (HIGH/LOW) Approx. $U_V / < 1.8 V$ Operating mode Light/dark with rotary switch 100 mA Output current I_A max. Response time ≤ 0.5 ms ⁵⁾ 1,000 Hz 6) Switching frequency **Connection type** Cable, PVC, 2 m⁷⁾ Plug connection, M8, 3-pin Plug connection, M8, 4-pin Cable plug, 300 mm, M12, 4-pin Protection class $\langle \! \! \rangle$ **Protective circuits** Uv connections reverse polarity protected/ outputs reverse polarity protected (receivers only)/outputs overcurrent and short-circuit protected (receivers only) IP 66, IP 67, IP 68, IP 69K **Enclosure rating Ambient temperature** -30 °C ... +60 °C 8) Operation Warehouse -40 °C ... +70 °C 8) Weight (net) 83.6 g **Housing material** 1.4404/316L Included in delivery Stainless steel mounting bracket (1.4301/304) BEF-W100-A

3)

4)

5)

Without load

¹⁾ Average service life 100,000 h at $T_A = +25$ °C

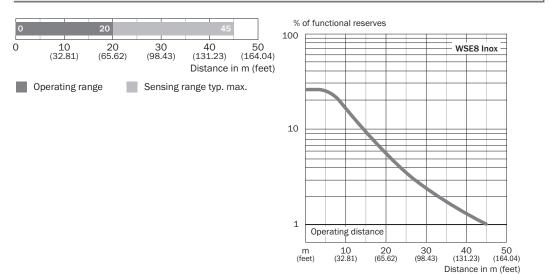
 Limit values, reverse polarity protected operation in short-circuit-protected network max. 8 A May not exceed or fall short of V_S tolerances

Signal transit time with resistive load

7) Do not bend below 0 °C.
 8) Air humidity of 35 % 95

³⁾ Air humidity of 35 % ... 95 %

Sensing range and functional reserves



Ordering information				
Part no.				
6041485				
6041486				
6041487				
6041488				
6041489				
6041490				
6041491				
6041492				

With light/dark ratio 1:1
 Do not bend below 0 °C

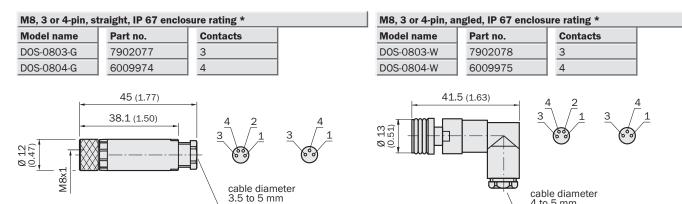
Round connectors

Note

The accessories specified in the following are examples of what we have to offer in addition to the W8 Inox. Please contact your regional contact or go to www.sick.com in the event of queries regarding round connectors, (special) reflectors, mounting systems or universal clamp systems.

Dimensional drawings and ordering information

Round connectors – with terminals



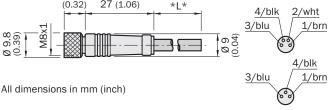
(0.14 to 0.20 inch)

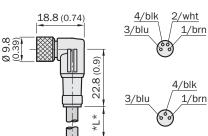
All dimensions in mm (inch)

* Max. tightening torque of 0.6 ... 0.8 Nm for M8

Round connectors – PVR connecting cables

M8, 3 or 4-pin, straight, IP 67 enclosure rating			M8, 3 or 4-pin, ar	gled, IP 67 enclosu	ire rating		
M8, 3 x 0.34 mm ² or 4 x 0.25 mm ² *			M8, 3 x 0.34 mm ² or 4 x 0.25 mm ² *				
Model name	Part no.	Contacts	Length of cable	Model name	Part no.	Contacts	Length of cable
DOL-0803-G02M	6010785	3	2 m	DOL-0803-W02M	6008489	3	2 m
DOL-0803-G05M	6022009	3	5 m	DOL-0803-W05M	6022010	3	5 m
DOL-0803-G10M	6022011	3	10 m	DOL-0803-W10M	6022012	3	10 m
DOL-0804-G02M	6009870	4	2 m	DOL-0804-W02M	6009871	4	2 m
DOL-0804-G05M	6009872	4	5 m	DOL-0804-W05M	6009873	4	5 m
DOL-0804-G10M	6010754	4	10 m	DOL-0804-W10M	6010755	4	10 m
8.2 (0.32)	27 (1.06) *	·L* .		18.8 (0.74)	<u> </u>	<u>2/wht</u>	
(0.52)	ZT (1.00) // // // // // // // // // // // // //	<u>4/</u>	<u>'blk 2/wht</u>		<u>3/blu</u>	<u>1/brn</u>	





4 to 5 mm (0.16 to 0.20 inch)

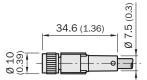
All dimensions in mm (inch)

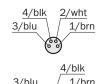
All dimensions in mm (inch)

* Max. tightening torque of 0.3 Nm for M8

Round connectors – PUR connecting cables

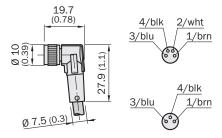
M8, 3 or 4-pin, straight, IP 67 enclosure rating			M8, 3 or 4-pin, angled, IP 67 enclosure rating				
M8, 3/4 x 0.25 mm ² *			M8, 3/4 x 0.25 mm ² *				
Model name	Part no.	Contacts	Length of cable	Model name	Part no.	Contacts	Length of cable
DOL-0803-G02MC	6025888	3	2 m	DOL-0803-W02MC	6025891	3	2 m
DOL-0803-G05MC	6025889	3	5 m	DOL-0803-W05MC	6025892	3	5 m
DOL-0803-G10MC	6025890	3	10 m	DOL-0803-W10MC	6025893	3	10 m
DOL-0804-G02MC	6025894	4	2 m	DOL-0804-W02MC	6025897	4	2 m
DOL-0804-G05MC	6025895	4	5 m	DOL-0804-W05MC	6025898	4	5 m
DOL-0804-G10MC	6025896	4	10 m	DOL-0804-W10MC	6025899	4	10 m





All dimensions in mm (inch)

<u>3/blu</u> 1/brn ଚ୍ଚେ

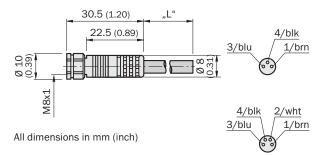


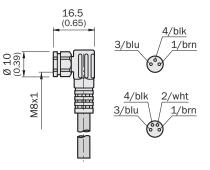
All dimensions in mm (inch)

* Max. tightening torque of 0.2 Nm for M8

Round connectors - "hygienic and wet zone" connecting cables

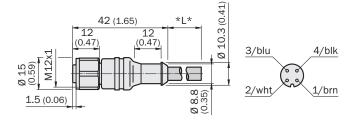
M8, 3 or 4-pin, straight, IP 69K enclosure rating			M8, 3 or 4-pin, an	gled, IP 69K enclos	sure rating		
M8, 3/4 x 0.34 m	M8, 3/4 x 0.34 mm ² , PVC sheath, stainless steel nut (1.4404) *			M8, 3/4 x 0.34 mm ² , PVC sheath, stainless steel nut (1.4404) *			
Model name	Part no.	Contacts	Length of cable	Model name	Part no.	Contacts	Length of cable
DOL-0803-G02MN	6033664	3	2 m	DOL-0803-W02MN	6033667	3	2 m
DOL-0803-G05MN	6033665	3	5 m	DOL-0803-W05MN	6033668	3	5 m
DOL-0803-G10MN	6033666	3	10 m	DOL-0803-W10MN	6033669	3	10 m
DOL-0804-G02MN	6033670	4	2 m	DOL-0804-W02MN	6033673	4	2 m
DOL-0804-G05MN	6033671	4	5 m	DOL-0804-W05MN	6033674	4	5 m
DOL-0804-G10MN	6033672	4	10 m	DOL-0804-W10MN	6033675	4	10 m



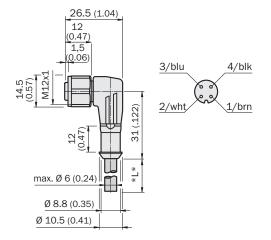


All dimensions in mm (inch)

M12, 4-pin, straight, IP 69K enclosure rating				M12, 4-pin, angle	d, IP 69K enclosure	e rating	
M12, 4 x 0.25 mm	M12, 4 x 0.25 mm ² , PVC sheath, stainless steel nut (1.4404) *			M12, 4 x 0.25 mr	n², PVC sheath, sta	inless steel nut (1.4	1404) *
Model name	Part no.	Contacts	Length of cable	Model name	Part no.	Contacts	Length of cable
DOL-1204-G02MN	6028128	4	2 m	DOL-1204-W02MN	6028129	4	2 m
DOL-1204-G05MN	6028130	4	5 m	DOL-1204-W05MN	6028131	4	5 m
DOL-1204-G10MN	6028132	4	10 m	DOL-1204-W10MN	6028133	4	10 m
DOL-1204-G25MN	6028134	4	25 m	DOL-1204-W25MN	6028135	4	25 m



All dimensions in mm (inch)

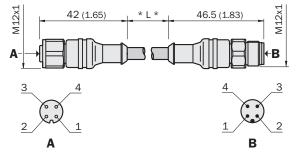


All dimensions in mm (inch)

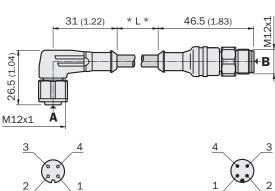
* Max. tightening torque of 0.6 Nm for M8 and 0.7 Nm for M12

Round connectors - "hygienic and wet zone" connection cables

M12, 4-pin, straig	ght, IP 69K enclosu	re rating		M12, 4-pin, angle	d, IP 69K enclosur	e rating	
M12, 4 x 0.25 mm ² , PVC sheath, stainless steel nut (1.4404) *			M12, 4 x 0.25 mr	n², PVC sheath, sta	inless steel nut (1.4	1404) *	
Model name	Part no.	Contacts	Length of cable	Model name	Part no.	Contacts	Length of cable
DSL-1204-G0M6N	6028194	4	0.6 m	DSL-1204-B0M6N	6028197	4	0.6 m
DSL-1204-G0M2N	6028195	4	2 m	DSL-1204-B0M2N	6028198	4	2 m
DSL-1204-G0M5N	6028196	4	5 m	DSL-1204-B0M5N	6028199	4	5 m
DSL-1204-GUM5N	6028196	4	<u>5 m</u>	DSI-1204-B0101510	6028199	4	5 M



All dimensions in mm (inch)



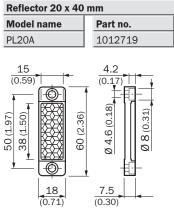
В

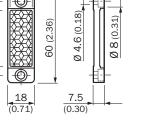
* Max. tightening torque of 0.7 Nm for M12

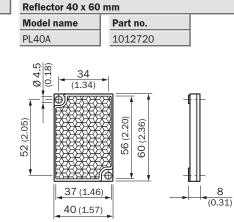
All dimensions in mm (inch)

Α

Reflectors, plastic version for temperatures up to +65 °C, screwable

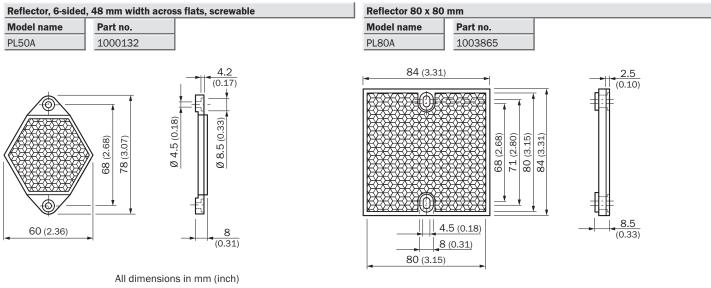






All dimensions in mm (inch)

All dimensions in mm (inch)

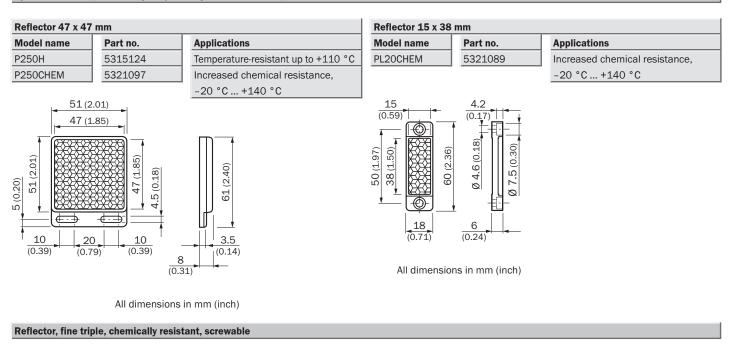


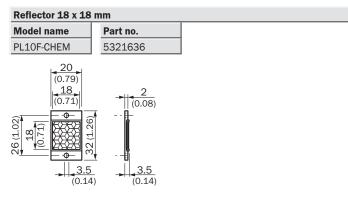
All dimensions in mm (inch)

Reflector 47 x 47 mm					
Model name	Part no.	Applications			
P250 *	5304812	Standard			
51 (2. 47 (1. (10) (10) (10) (0.79) (0.79)					

All dimensions in mm (inch) * Included in delivery

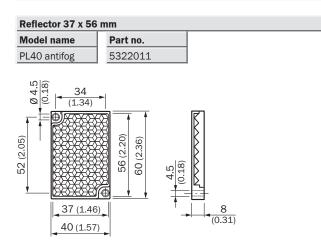
Special reflectors, chemically and/or temperature resistant, screwable





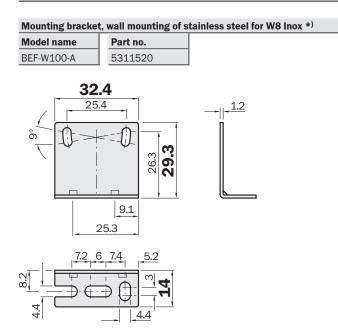
All dimensions in mm (inch)

Reflector, antifog, for prevention of moisture fogging on the reflection surface, screwable



All dimensions in mm (inch)

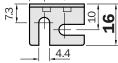
Mounting systems



All dimensions in mm

*) Included in delivery of W8 Inox standard models

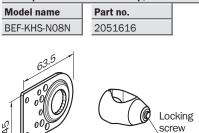
Mounting bracke Model name	t, floor mounting of stainless steel for W8 Inox Part no.
BEF-W100-B	5311521
	→ 9 1 2
5.7 13.5 m	



All dimensions in mm

Universal clamp system

NO8N plate for universal clamp, stainless steel plate (1.4571) and stainless steel clamp (1.4408)

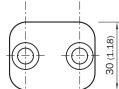


All dimensions in mm

Mounting rod, straight, stainless steel (1.4571) Model name Part no. A BEF-MS12G-NA 4058914 200 mm BEF-MS12G-NB 4058915 300 mm Volume 300 mm 300 mm A 1.5 (0.06) x 45° 1.5 (0.06) x 45° A A A

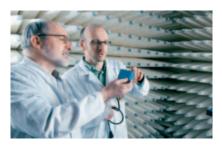
Rod mounting clamping block, aluminum, 2 x screws (M6 x 30), 2 x spring-discs

Rod mounting clamping block, alumin	num, 2 x screws (Ni6 x 30), 2 x spring-aiscs
Model name Part no.	-
BEF-RMC-D12 5321878	
12.2 (0.48)	
26.4 (1.04)	
20 (0.79)	
37 (1.46)	



All dimensions in mm

SICK at a glance



Leading technologies

With a staff of more than 5,000 and over 50 subsidiaries and representations worldwide, SICK is one of the leading and most successful manufacturers of sensor technology. The power of innovation and solution competency have made SICK the global market leader. No matter what the project and industry may be, talking with an expert from SICK will provide you with an ideal basis for your plans – there is no need to settle for anything less than the best.



Unique product range

- Non-contact detecting, counting, classifying, positioning and measuring of any type of object or media
- Accident and operator protection with sensors, safety software and services
- Automatic identification with bar code and RFID readers
- Laser measurement technology for detecting the volume, position and contour of people and objects
- Complete system solutions for analysis and flow measurement of gases and liquids



Comprehensive services

- SICK LifeTime Services for safety and productivity
- Application centers in Europe, Asia and North America for the development of system solutions under realworld conditions
- E-Business Partner Portal www.mysick.com – price and availability of products, requests for quotation and online orders

Worldwide presence with subsidiaries in the following countries:

Australia Belgium/Luxembourg Brasil Ceská Republika Canada China Danmark Deutschland España France Great Britain India Israel Italia Japan

México Nederland Norge Österreich Polska România Russia Schweiz Singapore Slovenija South Africa South Korea Suomi Sverige Taiwan Türkiye **United Arab Emirates** USA

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

