

WTM12L-24161120A00

PHOTOELECTRIC SENSORS





Ordering information

Туре	part no.
WTM12L-24161120A00	1125113

Other models and accessories → www.sick.com/W12

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression, Foreground suppression, MultiMode, distance value
MultiMode	1 Background suppression 2 Foreground suppression 3 Two Value Teach-in 4 Two independent switching points 5 Window 6 ApplicationSelect M manual / measurement
Sensing range	
Sensing range min.	80 mm (mode 1, 3, 4, 5)
	0 mm (mode 2)
	80 mm (mode 1 and 6 combined)
Sensing range max.	850 mm (mode 1, 3, 4, 5)
	350 mm (mode 2)
	1,200 mm (mode 1 and 6 combined)
Adjustable switching threshold for background suppression	90 mm 850 mm (mode 1, 3, 4, 5)

^{1) 90%} remission factor.

 $^{^{2)}}$ Equivalent to 1 $\sigma.$

 $^{^{}m 3)}$ See repeatability characteristic lines.

 $^{^{4)}}$ Do not intentionally look into the laser beam. Never point the laser beam at people's eyes.

	90 mm 1,200 mm (mode 1 and 6 combined)
Adjustable switching threshold for foreground suppression	100 mm 350 mm (mode 2)
Reference object	Object with 90% remission factor (complies with standard white according to DIN 5033)
Minimum distance between set sensing range and background (black 6% / white 90%)	6 mm, at a distance of 250 mm (mode 1, 3, 4, 5)
	6 mm, at a distance of 650 mm (mode 1 and 6 combined)
Minimum object height at set sensing range in front of black background (6% remission factor)	2.2 mm, at a distance of 150 mm (mode 2)
Recommended sensing range for the best per- formance	100 mm 300 mm (mode 1, 3, 4, 5)
	100 mm 200 mm (mode 2)
	100 mm 700 mm (mode 1 and 6 combined)
Distance value	
Measuring range	100 mm 850 mm
Resolution	1 mm
Repeatability	0,1 mm 6 mm ^{1) 2) 3)}
Accuracy	Typ. 6.0 mm at 100 200 mm distance ¹⁾
	Typ. 12 mm at 200 400 mm distance ¹⁾
	Typ. 30 mm at 400 800 mm distance $^{1)}$
Distance value output	Via IO-Link
Update rate of the distance value	20 ms
Emitted beam	
Light source	Laser
Type of light	Visible red light
Shape of light spot	Ellipse shape
Light spot size (distance)	2.2 mm x 1.2 mm (300 mm)
Maximum dispersion of the emitted beam around the standardized transmission axis (squint angle)	< +/- 1.0° (at Ta = +23 °C)
Key laser figures	
Normative reference	EN 60825-1:2014, IEC 60825-1:2014
Laser class	1 4)
Wave length	655 nm
Pulse duration	4 µs
Maximum pulse power	< 6.74 mW
Average service life	$50,000 \text{ h at T}_{\text{U}} = +25 ^{\circ}\text{C}$
Smallest detectable object (MDO) typ.	
	2.5 mm, at a distance of 300 mm, mode 1, 3, 4, 5
	2.5 mm, at a distance of 200 mm, mode 2
	1.3 mm, at a distance of 650 mm, mode 1 and 6 combined

^{1) 90%} remission factor.

²⁾ Equivalent to 1 σ .

³⁾ See repeatability characteristic lines.

⁴⁾ Do not intentionally look into the laser beam. Never point the laser beam at people's eyes.

	Object with 90% remission factor (complies with standard white according to DIN 5033)
Adjustment	
Teach-Turn adjustn	ent BluePilot For adjusting the sensing range with mode selection
IO-	ink For configuring the sensor parameters and Smart Task functions
Display	
LED	BluePilot: Display of mode, display of output states Q_{L1} (LED 3 permanently on) and Q_{L2} (LED 5 permanently on)
LED g	Operating indicator Static on: power on Flashing: IO-Link mode
LED ye	Status of received light beam Static on: object present Static off: object not present
Special features	MultiMode
Special applications	Detecting small objects, Detection of objects moving at high speeds, Detecting flat objects, Detecting uneven, shiny objects, Detection of poorly remitting and tilted objects, Detecting perforated objects

 $^{^{1)}\,90\%}$ remission factor.

Safety-related parameters

MTTF _D	280 years
DC _{avg}	0 %
T _M (mission time)	10 years

Communication interface

IO-Link	√ , IO-Link V1.1
Data transmission rate	COM2 (38,4 kBaud)
Cycle time	2.3 ms
Process data length	16 Bit
Process data structure	Bit 0 = switching signal Q _{L1}
	Bit 1 = switching signal Q _{L2}
	Bit 2 15 = Current receiver level (live)
VendorID	26
DeviceID HEX	0x8002CC
DeviceID DEC	8389324
Compatible master port type	A
SIO mode support	Yes

Electronics

Supply voltage U _B	40VP0 00VP0 1)
Supply voltage og	10 V DC 30 V DC ¹⁾

Limit values

 $^{^{2)}}$ Equivalent to 1 $\sigma.$

³⁾ See repeatability characteristic lines.

 $^{^{\}rm 4)}$ Do not intentionally look into the laser beam. Never point the laser beam at people's eyes.

²⁾ Signal transit time with resistive load in switching mode.

³⁾ With light/dark ratio 1:1.

⁴⁾ This switching output must not be connected to another output.

Ripple	≤ 5 V
Usage category	DC-12 (According to EN 60947-5-2) DC-13 (According to EN 60947-5-2)
Current consumption	\leq 14 mA, without load. At U _B = 24 V
Protection class	III
Digital output	
Number	2 (Complementary)
Туре	Push-pull: PNP/NPN
Switching mode	Light/dark switching
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.}	≤ 100 mA
Circuit protection outputs	Reverse polarity protected
	Overcurrent protected
	Short-circuit protected
Response time	\leq 500 µs (mode 1, 2, 3) $^{2)}$
	≤ 1,000 µs (mode 4, 5) ²⁾
	\leq 15 ms (mode 1 and 6 combined) $^{2)}$
Repeatability (response time)	150 μ s (mode 1, 2, 3) $^{2)}$
	350 μs (mode 4, 5) ²⁾
	5 ms (mode 1 and 6 combined) ²⁾
Switching frequency	1,000 Hz (mode 1, 2, 3) $^{3)}$
	500 Hz (mode 4, 5) ³⁾
	30 Hz (mode 1 and 6 combined) ³⁾
Pin/Wire assignment	
BN 1	+ (L+)
WH 2	\bar{Q}_{L1}/MF
	Digital output, dark switching, object present \rightarrow output $\bar{Q}L1$ LOW (Mode 1, 3, 5, 6) ⁴⁾ The pin 2 function of the sensor can be configured
	Digital output, light switching, object present \rightarrow output QL1 LOW (Mode 2) $^{4)}$ Additional possible settings via IO-Link
	Digital output, light switching, object present \rightarrow output QL2 HIGH (Mode 4) $^{4)}$
BU 3	- (M)
BK 4	QL1/C Digital output, light switching, object present \rightarrow output QL1 HIGH (Mode 1, 3, 4, 5, 6) ⁴⁾ The pin 4 function of the sensor can be configured
	Digital output, dark switching, object present \rightarrow output $\bar{Q}L1$ HIGH (Mode 2) $^{4)}$ Additional possible settings via IO-Link
	IO-Link communication C

¹⁾ Limit values.

²⁾ Signal transit time with resistive load in switching mode.

³⁾ With light/dark ratio 1:1.

⁴⁾ This switching output must not be connected to another output.

Mechanics

Housing	Rectangular
Dimensions (W x H x D)	15.6 mm x 49.5 mm x 43.1 mm
Connection	Male connector M12, 4-pin
Material	
Housing	Metal, zinc diecast
Front screen	Plastic, PMMA
Male connector	Plastic, VISTAL®
Weight	Approx. 77 g
Maximum tightening torque of the fixing screws	1.4 Nm

Ambient data

Enclosure rating	IP66 (EN 60529) IP67 (EN 60529) IP69 (EN 60529)
Ambient operating temperature	-20 °C +55 °C
Ambient temperature, storage	-40 °C +70 °C
Warm-up time	$<$ 15 min, Where T_u is under –10 $^{\circ}\text{C}$
Typ. Ambient light immunity	Artificial light: $\leq 50,000 \text{ lx}$ Sunlight: $\leq 50,000 \text{ lx}$
Shock resistance	50 g, 11 ms (25 positive and 25 negative shocks along X, Y, Z axes, 150 total shocks (EN60068-2-27))
Vibration resistance	$10~\rm{Hz} \dots 2,\!000~\rm{Hz}$ (Amplitude 0.5 mm / 10 g, 20 sweeps per axis, for X, Y, Z axes, 1 octave/min, (EN60068-2-6))
Air humidity	$35\ \%\dots 95\ \%,$ relative humidity (no condensation)
Electromagnetic compatibility (EMC)	EN 60947-5-2
Resistance to cleaning agent	ECOLAB
UL File No.	NRKH.E181493 & NRKH7.E181493

Smart Task

Smart Task name	Base logics
Logic function	Direct AND OR
Timer function	Deactivated Switch-on delay Off delay ON and OFF delay Impulse (one shot)
Inverter	Yes
Switching frequency	SIO Logic: 900 Hz (mode 1, 2, 3) ¹⁾ SIO Logic: 450 Hz (mode 4, 5) ¹⁾ SIO Logic: 30 Hz (mode 1 and 6 combined) ¹⁾ IOL: 800 Hz (mode 1, 2, 3) ²⁾ IOL: 450 Hz (mode 4, 5) ²⁾ IOL: 30 Hz (mode 1 and 6 combined) ²⁾

 $^{^{1)}\,\}mbox{Use}$ of Smart Task functions without IO-Link communication (SIO mode).

 $^{^{2)}\,\}mbox{Use of Smart Task functions with IO-Link communication function.}$

Response time	Mode 1, 2, 3 $^{1)}$ SIO Logic: 1100 μ s (mode 4, 5) $^{1)}$ SIO Logic: 15 ms (mode 1 and 6 combined) $^{1)}$ IOL: 600 μ s (mode 1, 2, 3) $^{2)}$ IOL: 1100 μ s (mode 4, 5) $^{2)}$ IOL: 15 ms (mode 1 and 6 combined) $^{2)}$
Repeatability	SIO Logic: 200 μ s (mode 1, 2, 3) ¹⁾ SIO Logic: 400 μ s (mode 4, 5) ¹⁾ SIO Logic: 5 ms (mode 1 and 6 combined) ¹⁾ IOL: 250 μ s (mode 1, 2, 3) ²⁾ IOL: 450 μ s (mode 4, 5) ²⁾ IOL: 5 ms (mode 1 and 6 combined) ²⁾
Switching signal	
Switching signal Q _{L1}	Switching output
Switching signal \bar{Q}_{L1}	Switching output

 $^{^{1)}}$ Use of Smart Task functions without IO-Link communication (SIO mode). $^{2)}$ Use of Smart Task functions with IO-Link communication function.

Diagnosis

Device temperature	
Measuring range	Very cold, cold, moderate, warm, hot
Device status	Yes
Detailed device status	Yes
Operating hour counter	Yes
Operating hours counter with reset function	Yes
Quality of teach	Yes

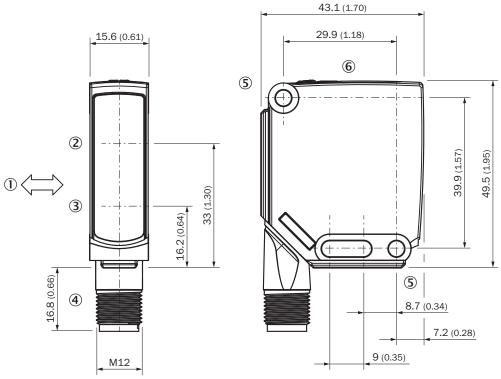
Classifications

ECLASS 5.0 27270904 ECLASS 5.1.4 27270904 ECLASS 6.0 27270904 ECLASS 6.2 27270904 ECLASS 7.0 27270904 ECLASS 8.0 27270904 ECLASS 8.1 27270904 ECLASS 9.0 27270904 ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719 ETIM 6.0 EC002719		
ECLASS 6.0 27270904 ECLASS 6.2 27270904 ECLASS 7.0 27270904 ECLASS 8.0 27270904 ECLASS 8.1 27270904 ECLASS 9.0 27270904 ECLASS 10.0 27270904 ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 5.0	27270904
ECLASS 6.2 27270904 ECLASS 7.0 27270904 ECLASS 8.0 27270904 ECLASS 8.1 27270904 ECLASS 9.0 27270904 ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 5.1.4	27270904
ECLASS 7.0 27270904 ECLASS 8.0 27270904 ECLASS 8.1 27270904 ECLASS 9.0 27270904 ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 6.0	27270904
ECLASS 8.0 27270904 ECLASS 8.1 27270904 ECLASS 9.0 27270904 ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 6.2	27270904
ECLASS 8.1 27270904 ECLASS 9.0 27270904 ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 7.0	27270904
ECLASS 9.0 27270904 ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 8.0	27270904
ECLASS 10.0 27270904 ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 8.1	27270904
ECLASS 11.0 27270904 ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 9.0	27270904
ECLASS 12.0 27270903 ETIM 5.0 EC002719	ECLASS 10.0	27270904
ETIM 5.0 EC002719	ECLASS 11.0	27270904
	ECLASS 12.0	27270903
ETIM 6.0 EC002719	ETIM 5.0	EC002719
	ETIM 6.0	EC002719
EC002719	ETIM 7.0	EC002719
ETIM 8.0 EC002719	ETIM 8.0	EC002719
UNSPSC 16.0901 39121528	UNSPSC 16.0901	39121528

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
ECOLAB certificate	✓
cULus certificate	✓
IO-Link	✓
Laser safety (IEC 60825-1) declaration of manufacturer	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

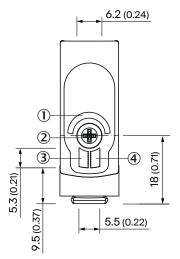
Dimensional drawing



Dimensions in mm (inch)

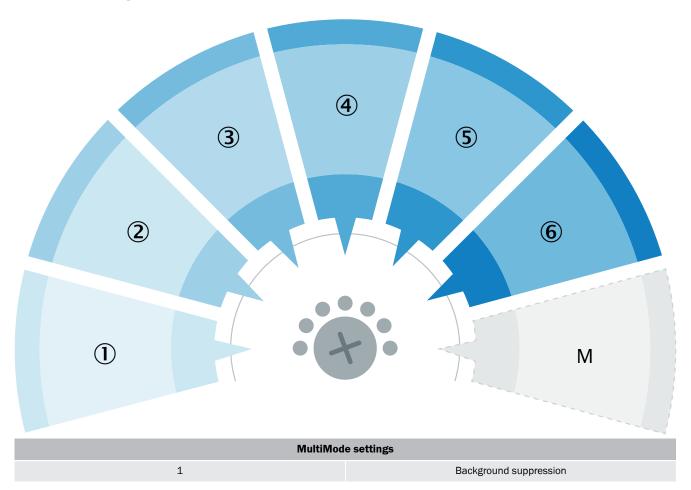
- ① Standard direction of the material being detected
- ② Center of optical axis, receiver
- 3 Center of optical axis, sender
- 4 Connection
- ⑤ Mounting hole, Ø 4.2 mm
- 6 display and adjustment elements

display and adjustment elements



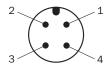
- ① LED blue ② Teach-Turn adjustment
- 3 LED green
- 4 LED yellow

Display and setting detail



MultiMode settings	
2	Foreground suppression
3	Two Value Teach-in
4	Two independent switching points
5	Window
6	ApplicationSelect
M	Manual / measurement

Connection type M12 male connector, 4-pin

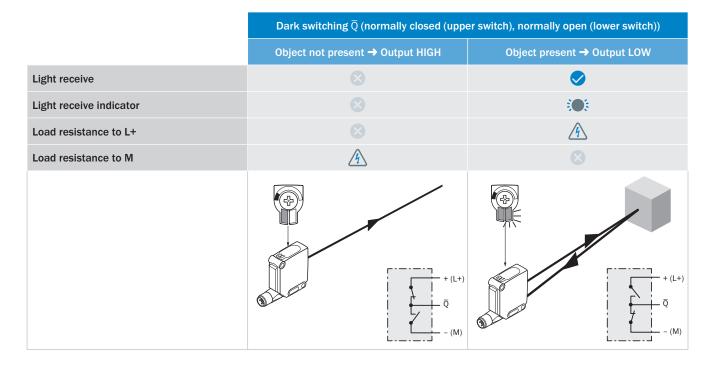


Connection diagram Cd-597 (Mode 4)

Connection diagram Cd-598 (Mode 1, 2, 3, 5, 6)

$$\begin{array}{c|c} & & \\ & &$$

Truth table Push-pull: PNP/NPN – dark switching \bar{Q} (MultiMode 1, 3, 5, 6)



Truth table Push-pull: PNP/NPN – light switching Q (MultiMode 1, 3, 5, 6)

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

Truth table Push-pull: PNP/NPN – light switching Q (MultiMode 2)

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

Truth table Push-pull: PNP/NPN – dark switching \bar{Q} (MultiMode 2)

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

Truth table Push-pull: PNP/NPN – dark switching $\bar{Q}L1$ (MultiMode 4)

	Dark switching $\overline{\mathbb{Q}}_{\mathbf{L}1}$ (normally closed (upper switch), normally open (lower switch))	
	Object not present → Output HIGH	Object present → Output LOW
Light receive		⊘
Light receive indicator		: • • • • • • • • • • • • • • • • • • •
Load resistance to L+		4
Load resistance to M	A	
	+ (L+) \[\overline{Q}_{1.1} \] - (M)	+ (L+) Q.1 - (M)

Truth table Push-pull: PNP/NPN – light switching QL1 (MultiMode 4)

	Light switching $\mathbf{Q}_{\mathtt{L1}}$ (normally open (upper switch), normally closed (lower switch))	
	Object not present → Output LOW	Object present → Output HIGH
Light receive		
Light receive indicator		(0)
Load resistance to L+	A	
Load resistance to M		4
	+ (L+) Q _{1.1} - (M)	+ (L+) Q _{1.1} - (M)

Truth table Push-pull: PNP/NPN – light switching QL2 (MultiMode 4)

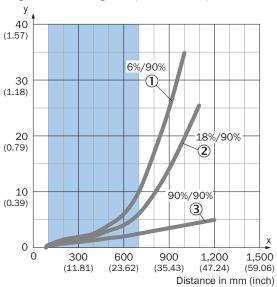
	Light switching \mathbf{Q}_{L2} (normally open (upper switch), normally closed (lower switch))	
	Object not present → Output LOW	Object present → Output HIGH
Light receive		⊘
Light receive indicator		:
Load resistance to L+	<u>A</u>	
Load resistance to M		A
	Q ₁₋₂ — (M)	+ (L+) Q _{1.2} - (M)

Truth table Push-pull: PNP/NPN – dark switching $\bar{Q}L2$ (MultiMode 4)

	Dark switching \overline{Q}_{L2} (normally closed (upper switch), normally open (lower switch))	
	Object not present → Output HIGH	Object present → Output LOW
Light receive		\bigcirc
Light receive indicator		:
Load resistance to L+		4
Load resistance to M	A	
	+ (L+) \(\bar{Q}_{12}\) - (M)	+ (L+) \[\bar{Q}_{12} \] - (M)

Characteristic curve Mode 1 and 6 combined

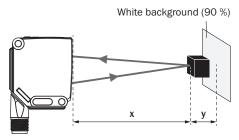
Minimum distance in mm (y) between the set sensing range and white background (90 % remission)



Recommended sensing range for the best performance

- ① Black object, 6% remission factor
- ② Gray object, 18% remission factor
- 3 White object, 90% remission factor

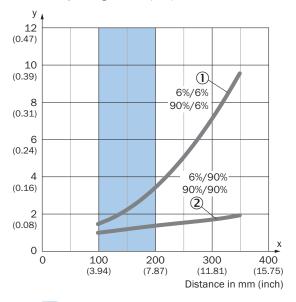
Example: Safe suppression of the background



Black object (6 % remission)
Set sensing range x = 650 mm
Needed minimum distance to white background y = 6 mm

Characteristic curve Mode 2

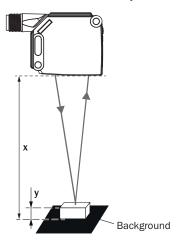
Minimum object height in mm (inch)



Recommended sensing range for the best performance

- ① Black background, 6% remission factor
- 2 White background, 90% remission factor

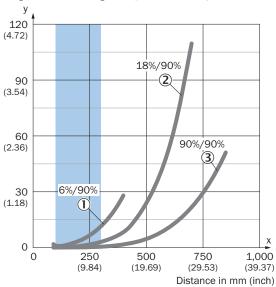
Example: Reliable detection of the object



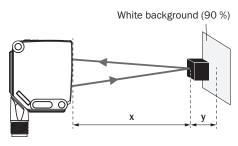
Black background (6 % remission factor)
Distance of sensor to background x = 150 mm
Required minimum object height y = 2.2 mm
For all objects regardless of their colors

Characteristic curve Mode 1, 3, 4, 5

Minimum distance in mm (y) between the set sensing range and white background (90 % remission)



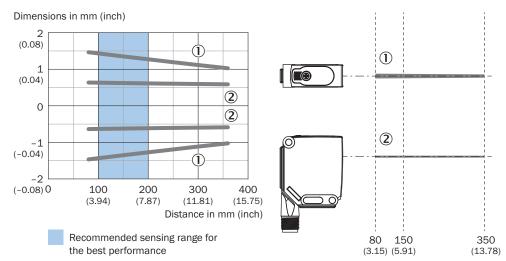
Example: Safe suppression of the background



Black object (6 % remission)
Set sensing range x = 250 mm
Needed minimum distance to white background y = 6 mm

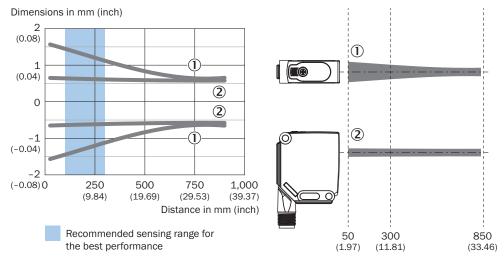
- Recommended sensing range for the best performance
- ① Black object, 6% remission factor
- ② Gray object, 18% remission factor
- 3 White object, 90% remission factor

Light spot size Mode 2



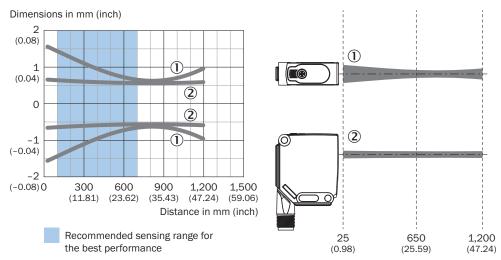
- 1 Light spot horizontal
- ② Light spot vertical

Light spot size Mode 1, 3, 4, 5



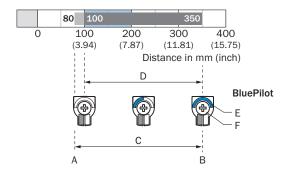
- ① Light spot horizontal
- ② Light spot vertical

Light spot size Mode 1 and 6 combined



- ① Light spot horizontal
- ② Light spot vertical

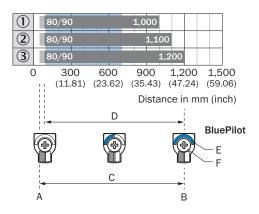
Sensing range diagram Mode 2



Recommended sensing range for the best performance

А	Sensing range min. in mm
В	Sensing range max. in mm
С	Field of view
D	Adjustable switching threshold for background suppression
E	Sensing range indicator
F	Teach-Turn adjustment

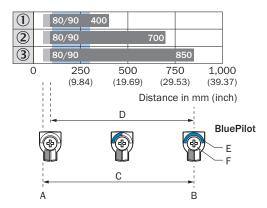
Sensing range diagram Mode 1 and 6 combined



Recommended sensing range for the best performance

1	Black object, 6% remission factor	
2	Gray object, 18% remission factor	
3	White object, 90% remission factor	
A	Sensing range min. in mm	
В	Sensing range max. in mm	
С	Field of view	
D	Adjustable switching threshold for background suppression	
E	Sensing range indicator	
F	Teach-Turn adjustment	

Sensing range diagram Mode 1, 3, 4, 5



Recommended sensing range for the best performance

1	Black object, 6% remission factor
2	Gray object, 18% remission factor
3	White object, 90% remission factor
Α	Sensing range min. in mm
В	Sensing range max. in mm
С	Field of view
D	Adjustable switching threshold for background suppression
E	Sensing range indicator
F	Teach-Turn adjustment

Recommended accessories

Other models and accessories → www.sick.com/W12

	Brief description	Туре	part no.		
Mounting systems					
	 Description: Plate N03 for universal clamp bracket, zinc coated Material: Steel, zinc diecast Details: Zinc plated steel (sheet), Zinc die cast (clamping bracket) Items supplied: Universal clamp (5322626), mounting hardware Usable for: UC12, W14-2, W18-2, W18-3, W11-2, W12-3, W12-2 Laser, W12G, W12 Teflon, W16, W24-2 Ex, PowerProx, W11G-2, TranspaTect, W18-3 Ex, W24-2, PL50A, PL80A, PL40A, P250 	BEF-KHS-N03	2051609		
	 Description: Clamping block for dovetail mounting Material: Aluminum Details: Aluminum (anodised) Items supplied: Mounting hardware included Suitable for: W11-2, W12-3 	BEF-KH-W12	2013285		
	 Description: Mounting bracket, large Material: Stainless steel Details: Stainless steel Items supplied: Mounting hardware included Suitable for: W11-2, W12-3, W16 	BEF-WG-W12	2013942		
	 Material: Aluminum Details: Aluminum Items supplied: Including mounting material (sensor) and mounting material (bracket) Usable for: Adapter plate for W23L/W27L to W12L 	BEF-AP-W12	2127742		
connectors and cables					
0	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF2A14-050VB3XLEAX	2096235		
1	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A14-050UB3XLEAX	2095608		

	Brief description	Туре	part no.		
network device	network devices				
0.000000		SIG300-OAOGAA100	1131014		
0 0 00000		SIG300-0A04AA100	1131011		
00000000		SIG300-0A05AA100	1131012		
0.000000		SIG300-0A06AA100	1131013		

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

