

WTM12L-34161120A00 W12

PHOTOELECTRIC SENSORS



Ordering information

| Туре | part no. |
|--------------------|----------|
| WTM12L-34161120A00 | 1126070 |

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 $\sigma.$

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) |
| | 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 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 | |
| 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 T _U = +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 | $50,000 \text{ h at T}_{\text{U}} = +25 \text{ °C}$ |
| 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) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| |
| BluePilot For adjusting the sensing range with mode selection |
| For configuring the sensor parameters and Smart Task functions |
| |
| BluePilot: Display of mode, display of output states Q_{L1} (LED 3 permanently on) and Q_{L2} (LED 5 permanently on) |
| Operating indicator Static on: power on Flashing: IO-Link mode |
| Status of received light beam Static on: object present Static off: object not present |
| MultiMode |
| 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 $0 = \text{switching signal } Q_{L1}$ |
| | Bit 1 = switching signal Q_{L2} |
| | Bit 2 15 = Current receiver level (live) |
| VendorID | 26 |
| DeviceID HEX | 0x8025F4 |
| DeviceID DEC | 8398324 |
| Compatible master port type | A |
| SIO mode support | Yes |

Electronics

| Supply voltage U _B | 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 | Cable with M12 male connector, 4-pin, 315 mm |
| Connection detail | |
| Deep-freeze property | Do not bend below 0 °C |
| Conductor size | 0.14 mm ² |
| Cable diameter | Ø 3.4 mm |
| Length of cable (L) | 275 mm |
| Bending radius | For flexible use > 12 x cable diameter |
| Bending cycles | 1,000,000 |
| Material | |
| Housing | Metal, zinc diecast |
| Front screen | Plastic, PMMA |
| Cable | Plastic, PVC |
| Male connector | Plastic, VISTAL® |
| Weight | Approx. 94 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 °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 |

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

²⁾ Use of Smart Task functions with IO-Link communication function.

| Inverter | Off delay ON and OFF delay Impulse (one shot) 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⁾ |
| Response time | SIO logic: $550 \mu s$ (mode 1, 2, 3) ¹⁾ SIO Logic: $1100 \mu s$ (mode 4, 5) ¹⁾ SIO Logic: $15 ms$ (mode 1 and 6 combined) ¹⁾ IOL: $600 \mu s$ (mode 1, 2, 3) ²⁾ IOL: $1100 \mu s$ (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 $ar{Q}_{L1}$ | 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 |

Certificates

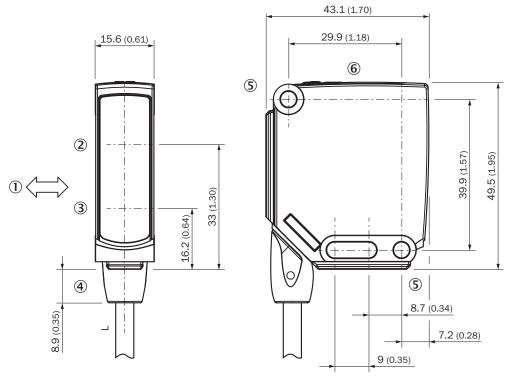
| EU declaration of conformity | ✓ |
|--------------------------------------------------------|---|
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| China RoHS | ✓ |
| ECOLAB certificate | ✓ |
| cULus certificate | ✓ |
| IO-Link certificate | ✓ |
| Laser safety (IEC 60825-1) declaration of manufacturer | ✓ |

| Information according to Art. 3 of Data Act | |
|------------------------------------------------|---|
| illiorillation according to Art. 3 of Data Act | V |
| (Podulation Ell 2022 /29E4) | |
| (Regulation EU 2023/2854) | |
| | |

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 |
| ETIM 7.0 | EC002719 |
| ETIM 8.0 | EC002719 |
| UNSPSC 16.0901 | 39121528 |

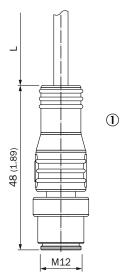
Dimensional drawing



Dimensions in mm (inch)
For length of cable (L), see technical data

- 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

Dimensional drawing, connection

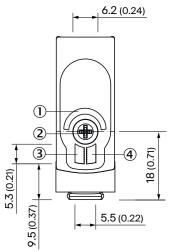


Dimensions in mm (inch)

For length of cable (L), see technical data

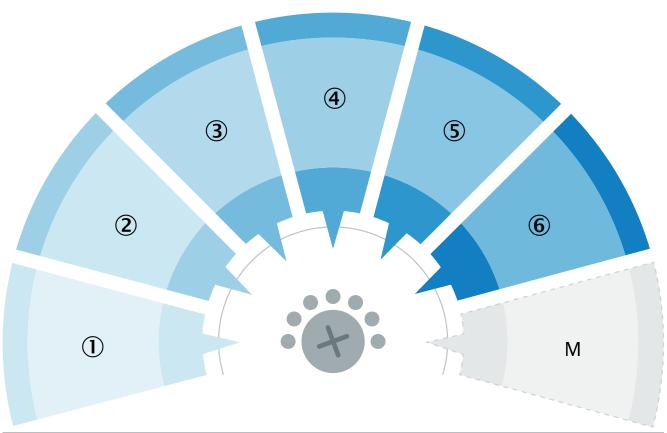
① Cable with M12 male connector

display and adjustment elements



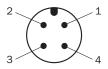
- ① LED blue
- ② Teach-Turn adjustment
- 3 LED green
- 4 LED yellow

Display and setting detail



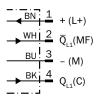
| MultiMode settings | | |
|--------------------|----------------------------------|--|
| 1 | Background suppression | |
| 2 | Foreground suppression | |
| 3 | Two Value Teach-in | |
| 4 | Two independent switching points | |
| 5 | Window | |
| 6 | ApplicationSelect | |
| M | Manual / measurement | |

Connection type M12 male connector, 4-pin



Connection diagram Cd-597 (Mode 4)

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



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

| | Dark switching $\overline{\mathbb{Q}}$ (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+ | | A |
| Load resistance to M | A | |
| | + (L+) \(\overline{Q}\) | + (L+) Q - (M) |

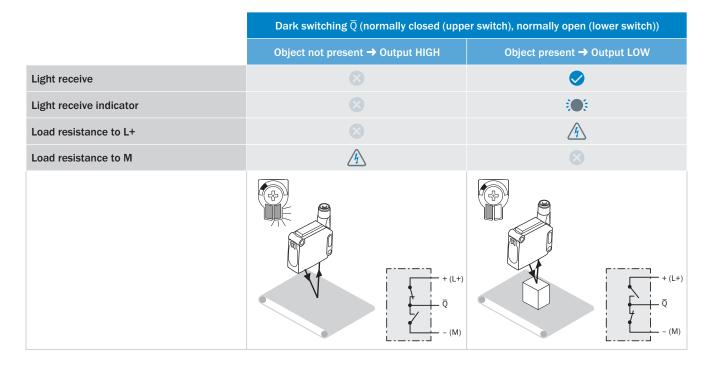
Truth table Push-pull: PNP/NPN - light switching Q (MultiMode 1, 3, 5, 6)

| | 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+) Q - (M) | + (L+) Q - (M) |

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 | | Ø |
| Light receive indicator | | : : |
| Load resistance to L+ | A | |
| Load resistance to M | | A |
| | + (L+) | + (L+) |

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



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

| | Dark switching $\overline{\mathbb{Q}}_{L1}$ (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+ | | <u> </u> |
| Load resistance to M | A | |
| | + (L+) \[\overline{Q}_{1.1} \] - (M) | + (L+) \overline{Q}_{1.1} - (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 | | : |
| Load resistance to L+ | <u>A</u> | |
| Load resistance to M | | A |
| | - (M) | + (L+) Q.1 - (M) |

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

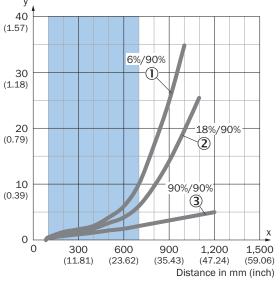
| | Light switching \mathbf{Q}_{L^2} (normally open (upper switch), normally closed (lower switch)) | |
|-------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------|
| | Object not present → Output LOW | Object present → Output HIGH |
| Light receive | | |
| Light receive indicator | | : • • • • • • • • • • • • • • • • • • • |
| Load resistance to L+ | A | |
| Load resistance to M | | <u>A</u> |
| | + (L+) Q ₁₂ - (M) | + (L+) Q ₁₂ - (M) |

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

| | Dark switching $\overline{\mathbb{Q}}_{L^2}$ (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 | 4 | |
| | + (L+ \\ \bar{Q}_{12} \\ - (M) | $ar{\mathbb{Q}}_{12}$ |

Characteristic curve Mode 1 and 6 combined

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

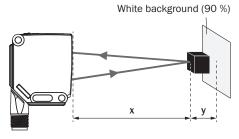


Recommended sensing range for

- the best performance

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

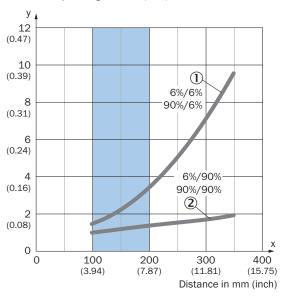
Example: Safe suppression of the background



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

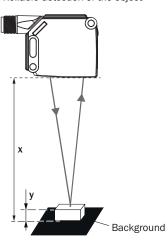
Characteristic curve Mode 2

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

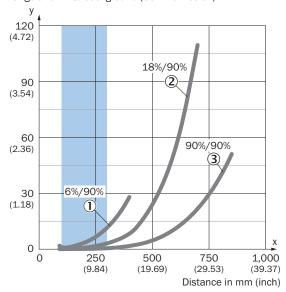
Example: Reliable detection of the object



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

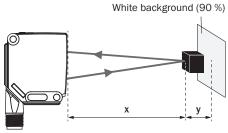
Characteristic curve Mode 1, 3, 4, 5

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



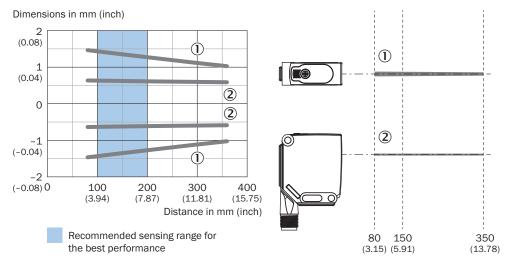
- Recommended sensing range for the best performance
- ① Black object, 6% remission factor
- ② Gray object, 18% remission factor
- 3 White object, 90% remission factor

Example: Safe suppression of the background



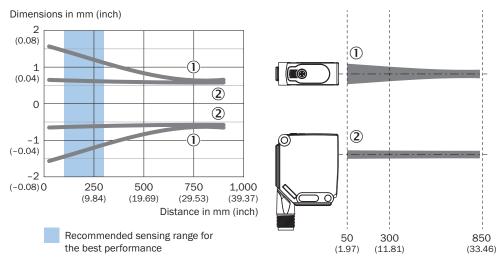
Black object (6 % remission)
Set sensing range x = 250 mm
Needed minimum distance to white background y = 6 mm

Light spot size Mode 2



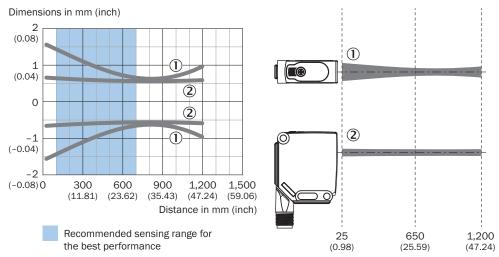
- ① Light spot horizontal
- ② Light spot vertical

Light spot size Mode 1, 3, 4, 5



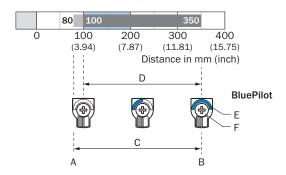
- ① Light spot horizontal
- ② Light spot vertical

Light spot size Mode 1 and 6 combined



- ① Light spot horizontal
- ② Light spot vertical

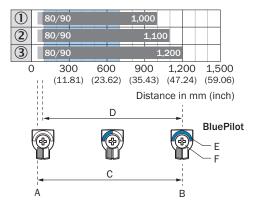
Sensing range diagram Mode 2



Recommended sensing range for the best performance

| 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 | |

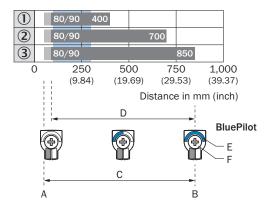
Sensing range diagram Mode 1 and 6 combined



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 |
| 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 |

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 |
| A | Sensing range min. in mm |

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| 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 sys | stems | | |
| | 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 |
| n n | 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 a | nd cables | | |
| R.O. | 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 |
| No. | 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 | es | | |
| 0.000000 | | SIG300-OAOGAA100 | 1131014 |
| 0 0 00000 | | SIG300-0A04AA100 | 1131011 |
| 00000000 | | SIG300-0A05AA100 | 1131012 |
| 0.000000 | | SIG300-0A06AA100 | 1131013 |

SICK AT A GLANCE

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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.

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