



# WTM12L-34161120A00

W12

PHOTOELECTRIC SENSORS

**SICK**  
Sensor Intelligence.



Illustration may differ

### Ordering information

Type	part no.
WTM12L-34161120A00	1126070

Other models and accessories → [www.sick.com/W12](http://www.sick.com/W12)



### Detailed technical data

#### Features

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

Adjustable switching threshold for foreground suppression		90 mm ... 1,200 mm (mode 1 and 6 combined)
		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 performance		100 mm ... 300 mm (mode 1, 3, 4, 5)
		100 mm ... 200 mm (mode 2)
		100 mm ... 700 mm (mode 1 and 6 combined)
<b>Distance value</b>		
	Measuring range	100 mm ... 850 mm
	Resolution	1 mm
	Repeatability	0,1 mm ... 6 mm <sup>1) 2) 3)</sup>
	Accuracy	Typ. 6.0 mm at 100 ... 200 mm distance <sup>1)</sup>
		Typ. 12 mm at 200 ... 400 mm distance <sup>1)</sup>
		Typ. 30 mm at 400 ... 800 mm distance <sup>1)</sup>
	Distance value output	Via IO-Link
	Update rate of the distance value	20 ms
<b>Emitted beam</b>		
	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 <sub>U</sub> = +23 °C)
<b>Key laser figures</b>		
	Normative reference	EN 60825-1:2014, IEC 60825-1:2014
	Laser class	1 <sup>4)</sup>
	Wave length	655 nm
	Pulse duration	4 µs
	Maximum pulse power	< 6.74 mW
	Average service life	50,000 h at T <sub>U</sub> = +25 °C
<b>Smallest detectable object (MDO) typ.</b>		
		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

<sup>1)</sup> 90% remission factor.

<sup>2)</sup> Equivalent to 1 σ.

<sup>3)</sup> See repeatability characteristic lines.

<sup>4)</sup> 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)
<b>Adjustment</b>	
Teach-Turn adjustment	BluePilot For adjusting the sensing range with mode selection
IO-Link	For configuring the sensor parameters and Smart Task functions
<b>Display</b>	
LED blue	BluePilot: Display of mode, display of output states Q <sub>L1</sub> (LED 3 permanently on) and Q <sub>L2</sub> (LED 5 permanently on)
LED green	Operating indicator Static on: power on Flashing: IO-Link mode
LED yellow	Status of received light beam Static on: object present Static off: object not present
<b>Special features</b>	MultiMode
<b>Special applications</b>	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

<sup>1)</sup> 90% remission factor.

<sup>2)</sup> Equivalent to 1  $\sigma$ .

<sup>3)</sup> See repeatability characteristic lines.

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

### Safety-related parameters

<b>MTTF<sub>D</sub></b>	280 years
<b>DC<sub>avg</sub></b>	0 %
<b>T<sub>M</sub> (mission time)</b>	10 years

### Communication interface

<b>IO-Link</b>	✓ , 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 <sub>L1</sub> Bit 1 = switching signal Q <sub>L2</sub> 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

<b>Supply voltage <math>U_B</math></b>	10 V DC ... 30 V DC <sup>1)</sup>
<b>Ripple</b>	$\leq 5$ V
<b>Usage category</b>	DC-12 (According to EN 60947-5-2) DC-13 (According to EN 60947-5-2)
<b>Current consumption</b>	$\leq 14$ mA, without load. At $U_B = 24$ V
<b>Protection class</b>	III
<b>Digital output</b>	
Number	2 (Complementary)
Type	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 $I_{max}$	$\leq 100$ mA
Circuit protection outputs	Reverse polarity protected Overcurrent protected Short-circuit protected
Response time	$\leq 500$ $\mu$ s <sup>2) 3)</sup> $\leq 1,000$ $\mu$ s <sup>2) 4)</sup> $\leq 15$ ms <sup>2) 5)</sup>
Repeatability (response time)	150 $\mu$ s (mode 1, 2, 3) <sup>2)</sup> 350 $\mu$ s (mode 4, 5) <sup>2)</sup> 5 ms (mode 1 and 6 combined) <sup>2)</sup>
Switching frequency	1,000 Hz (mode 1, 2, 3) <sup>6)</sup> 500 Hz (mode 4, 5) <sup>6)</sup> 30 Hz (mode 1 and 6 combined) <sup>6)</sup>
<b>Pin/Wire assignment</b>	
BN 1	+ (L+)
WH 2	$\bar{Q}_{L1}$ /MF Digital output, dark switching, object present → output $\bar{Q}_{L1}$ LOW (Mode 1, 3, 5, 6) <sup>7)</sup> The pin 2 function of the sensor can be configured  Digital output, light switching, object present → output $\bar{Q}_{L1}$ LOW (Mode 2) <sup>7)</sup> Additional possible settings via IO-Link  Digital output, light switching, object present → output $\bar{Q}_{L2}$ HIGH (Mode 4) <sup>7)</sup>
BU 3	- (M)
BK 4	QL1/C Digital output, light switching, object present → output QL1 HIGH (Mode 1, 3, 4, 5, 6) <sup>7)</sup>

<sup>1)</sup> Limit values.

<sup>2)</sup> Signal transit time with resistive load in switching mode.

<sup>3)</sup> Mode 1, 2, 3.

<sup>4)</sup> Mode 4, 5.

<sup>5)</sup> Mode 1 and 6 combined.

<sup>6)</sup> With light/dark ratio 1:1.

<sup>7)</sup> This switching output must not be connected to another output.

	The pin 4 function of the sensor can be configured
	Digital output, dark switching, object present → output $\bar{Q}L1$ HIGH (Mode 2) <sup>7)</sup> Additional possible settings via IO-Link
	IO-Link communication C

- 1) Limit values.
- 2) Signal transit time with resistive load in switching mode.
- 3) Mode 1, 2, 3.
- 4) Mode 4, 5.
- 5) Mode 1 and 6 combined.
- 6) With light/dark ratio 1:1.
- 7) This switching output must not be connected to another output.

Mechanics

<b>Housing</b>	Rectangular
<b>Dimensions (W x H x D)</b>	15.6 mm x 49.5 mm x 43.1 mm
<b>Connection</b>	Cable with M12 male connector, 4-pin, 315 mm
<b>Connection detail</b>	
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)	275 mm
Bending radius	For flexible use > 12 x cable diameter
Bending cycles	1,000,000
<b>Material</b>	
Housing	Metal, zinc diecast
Front screen	Plastic, PMMA
Cable	Plastic, PVC
Male connector	Plastic, VISTAL®
<b>Weight</b>	Approx. 94 g
<b>Maximum tightening torque of the fixing screws</b>	1.4 Nm

Ambient data

<b>Enclosure rating</b>	IP66 (EN 60529) IP67 (EN 60529) IP69 (EN 60529)
<b>Ambient operating temperature</b>	-20 °C ... +55 °C
<b>Ambient temperature, storage</b>	-40 °C ... +70 °C
<b>Warm-up time</b>	< 15 min, Where T <sub>u</sub> is under -10 °C
<b>Typ. Ambient light immunity</b>	Artificial light: ≤ 50,000 lx Sunlight: ≤ 50,000 lx
<b>Shock resistance</b>	50 g, 11 ms (25 positive and 25 negative shocks along X, Y, Z axes, 150 total shocks (EN60068-2-27))
<b>Vibration resistance</b>	10 Hz ... 2,000 Hz (Amplitude 0.5 mm / 10 g, 20 sweeps per axis, for X, Y, Z axes, 1 octave/min, (EN60068-2-6))
<b>Air humidity</b>	35 % ... 95 %, relative humidity (no condensation)
<b>Electromagnetic compatibility (EMC)</b>	EN 60947-5-2
<b>Resistance to cleaning agent</b>	ECOLAB

<b>UL File No.</b>	NRKH.E181493 & NRKH7.E181493
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Smart Task

<b>Smart Task name</b>	Base logics
<b>Logic function</b>	Direct AND OR
<b>Timer function</b>	Deactivated Switch-on delay Off delay ON and OFF delay Impulse (one shot)
<b>Inverter</b>	Yes
<b>Switching frequency</b>	SIO Logic: 900 Hz (mode 1, 2, 3) <sup>1)</sup> SIO Logic: 450 Hz (mode 4, 5) <sup>1)</sup> SIO Logic: 30 Hz (mode 1 and 6 combined) <sup>1)</sup> IOL: 800 Hz (mode 1, 2, 3) <sup>2)</sup> IOL: 450 Hz (mode 4, 5) <sup>2)</sup> IOL: 30 Hz (mode 1 and 6 combined) <sup>2)</sup>
<b>Response time</b>	SIO logic: 550 µs (mode 1, 2, 3) <sup>1)</sup> SIO Logic: 1100 µs (mode 4, 5) <sup>1)</sup> SIO Logic: 15 ms (mode 1 and 6 combined) <sup>1)</sup> IOL: 600 µs (mode 1, 2, 3) <sup>2)</sup> IOL: 1100 µs (mode 4, 5) <sup>2)</sup> IOL: 15 ms (mode 1 and 6 combined) <sup>2)</sup>
<b>Repeatability</b>	SIO Logic: 200 µs (mode 1, 2, 3) <sup>1)</sup> SIO Logic: 400 µs (mode 4, 5) <sup>1)</sup> SIO Logic: 5 ms (mode 1 and 6 combined) <sup>1)</sup> IOL: 250 µs (mode 1, 2, 3) <sup>2)</sup> IOL: 450 µs (mode 4, 5) <sup>2)</sup> IOL: 5 ms (mode 1 and 6 combined) <sup>2)</sup>
<b>Switching signal</b>	
Switching signal Q <sub>L1</sub>	Switching output
Switching signal $\bar{Q}_{L1}$	Switching output

<sup>1)</sup> Use of Smart Task functions without IO-Link communication (SIO mode).

<sup>2)</sup> Use of Smart Task functions with IO-Link communication function.

Diagnosis

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

Certificates

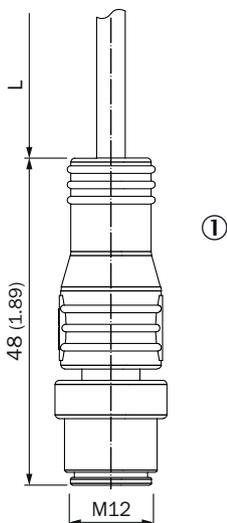
<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓

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 (Regulation EU 2023/2854)	✓

### Classifications

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

### Dimensional drawing, connection

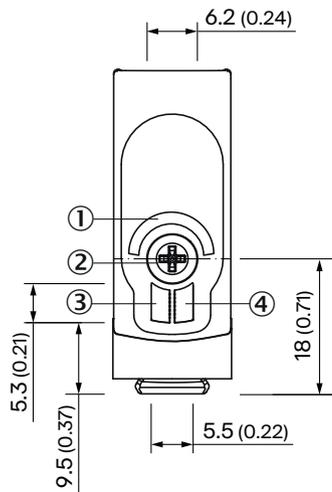


Dimensions in mm (inch)

For length of cable (L), see technical data

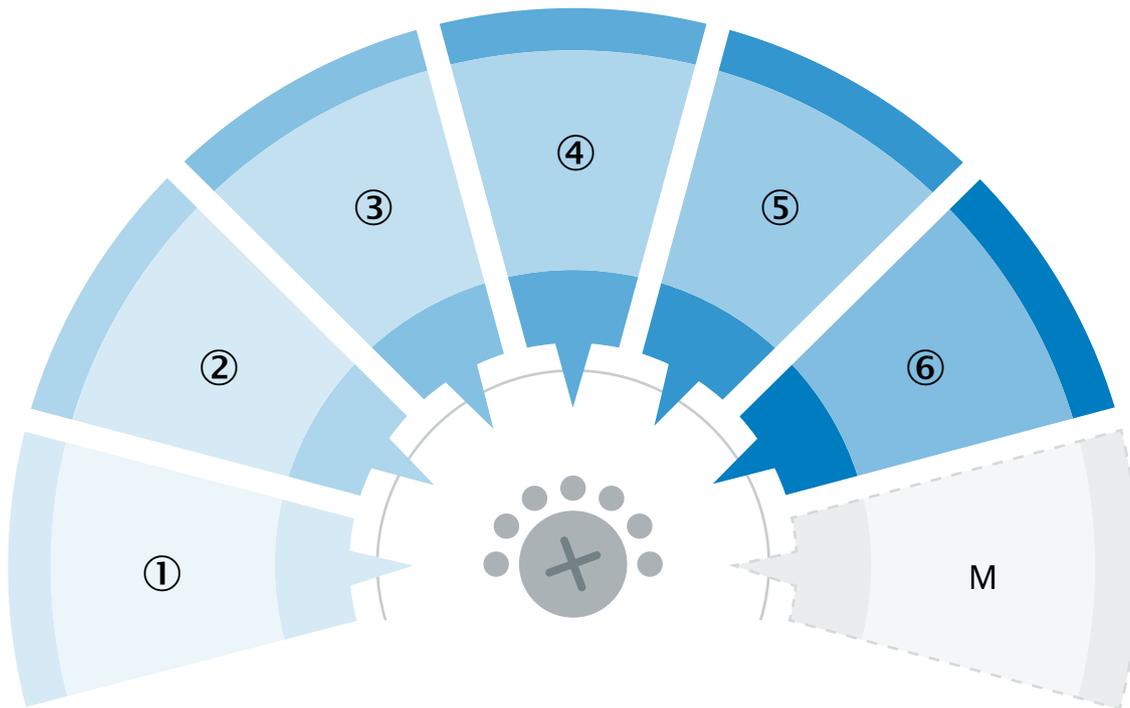
① Cable with M12 male connector

display and adjustment elements



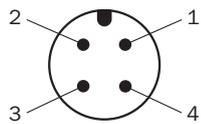
- ① LED blue
- ② Teach-Turn adjustment
- ③ LED green
- ④ LED yellow

Display and setting detail

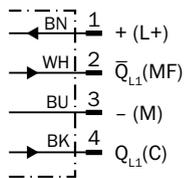


MultiMode settings	
1	Background suppression
2	Foreground suppression
3	Two Value Teach-in
4	Two independent switching points
5	Window Mode
6	ApplicationSelect
M	Manual / measurement

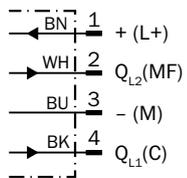
Connection type M12 male connector, 4-pin



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



Connection diagram Cd-597 (Mode 4)



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

	Dark switching $\bar{Q}_{L2}$ (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+	✘	⚡
Load resistance to M	⚡	✘

Truth table Push-pull: PNP/NPN – light switching  $Q_{L2}$  (MultiMode 4)

	Light switching $Q_{L2}$ (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+	⚡	✘
Load resistance to M	✘	⚡

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

	Dark switching $\bar{Q}_{L1}$ (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+	✘	⚡
Load resistance to M	⚡	✘

Truth table Push-pull: PNP/NPN – light switching  $Q_{L1}$  (MultiMode 4)

	Light switching $Q_{L1}$ (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+	⚡	✘
Load resistance to M	✘	⚡

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

	Dark switching $\bar{Q}$ (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+	✗	⚡
Load resistance to 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	✗	✔
Light receive indicator	✗	☀
Load resistance to L+	⚡	✗
Load resistance to M	✗	⚡

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

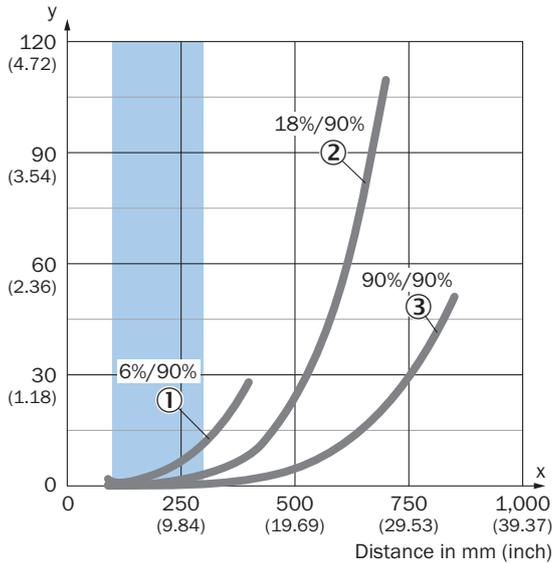
	Light switching Q (normally open (upper switch), normally closed (lower switch))	
	Object not present → Output LOW	Object present → Output HIGH
Light receive	⊗	✔
Light receive indicator	⊗	☀
Load resistance to L+	⚡	⊗
Load resistance to M	⊗	⚡

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

	Dark switching $\bar{Q}$ (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+	⊗	⚡
Load resistance to M	⚡	⊗

### Characteristic curve Mode 1, 3, 4, 5

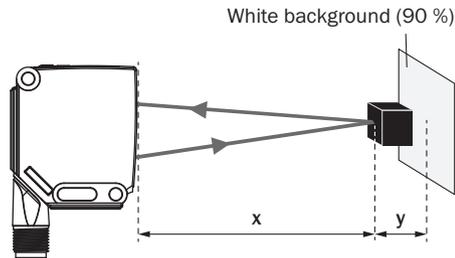
Minimum distance in mm (y) between the set sensing range and white background (90 % remission)



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

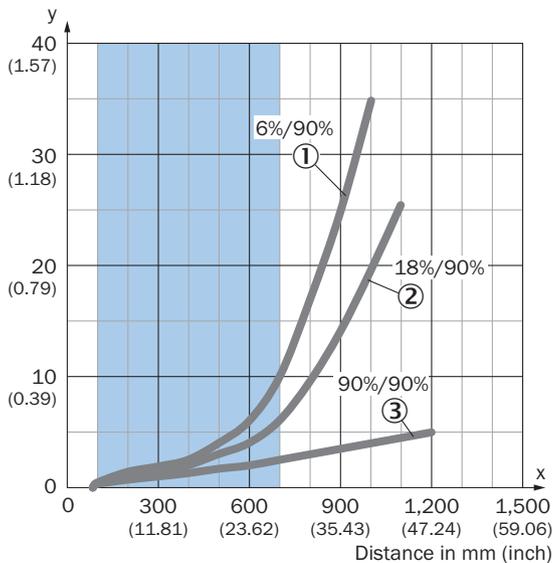
Example:  
Safe suppression of the background



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

### Characteristic curve Mode 1 and 6 combined

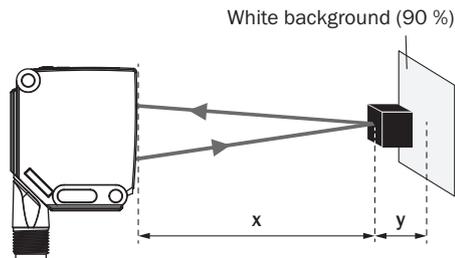
Minimum distance in mm (y) between the set sensing range and white background (90 % remission)



Recommended sensing range for the best performance

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

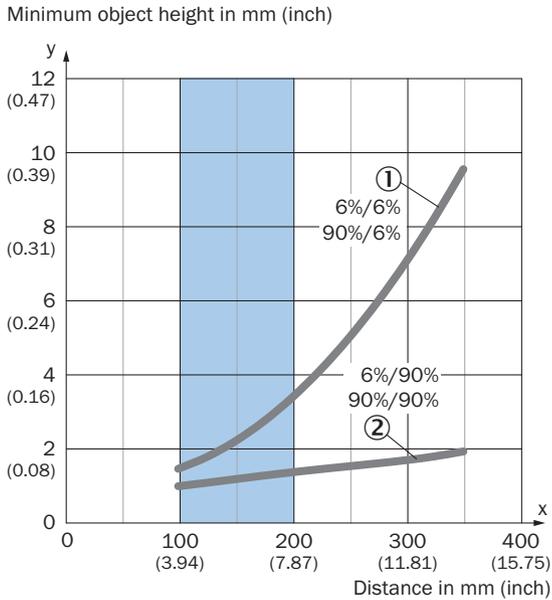
Example:  
Safe suppression of the background



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

③ White object, 90% remission factor

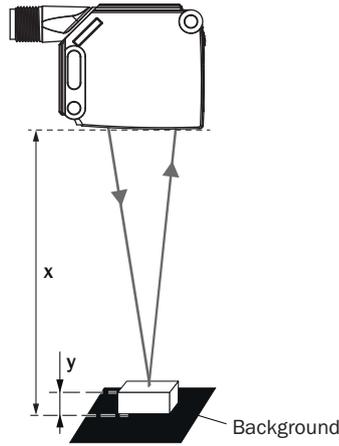
**Characteristic curve Mode 2**



Recommended sensing range for the best performance

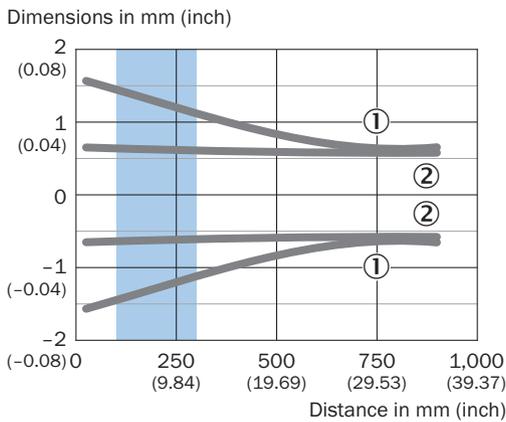
- ① Black background, 6% remission factor
- ② White background, 90% remission factor

Example:  
 Reliable detection of the object



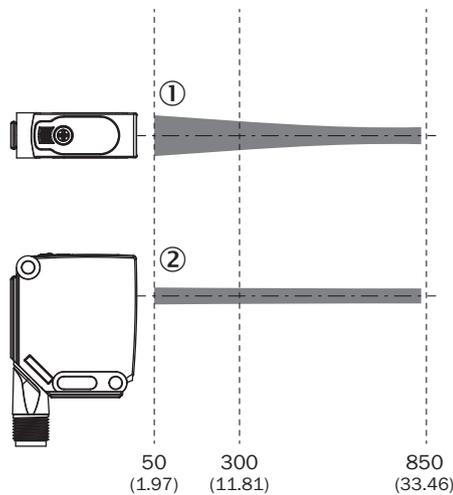
Black background (6 % remission factor)  
 Distance of sensor to background  $x = 150$  mm  
 Required minimum object height  $y = 2.2$  mm  
 For all objects regardless of their colors

**Light spot size Mode 1, 3, 4, 5**



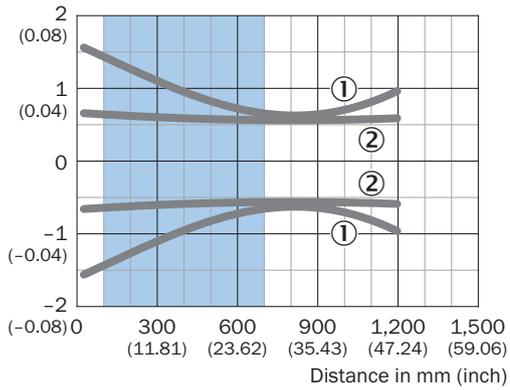
Recommended sensing range for the best performance

- ① Light spot horizontal
- ② Light spot vertical



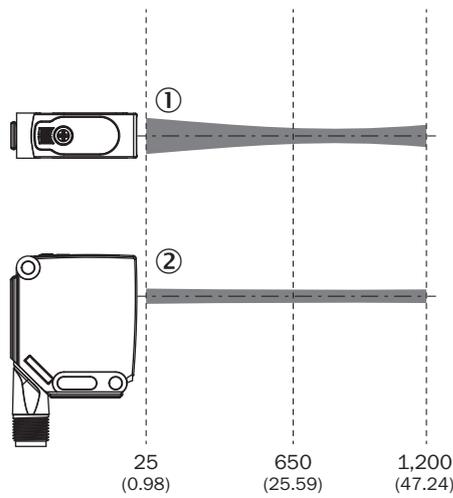
### Light spot size Mode 1 and 6 combined

Dimensions in mm (inch)



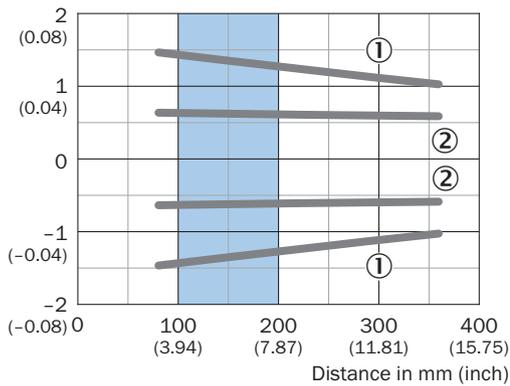
Recommended sensing range for the best performance

- ① Light spot horizontal
- ② Light spot vertical



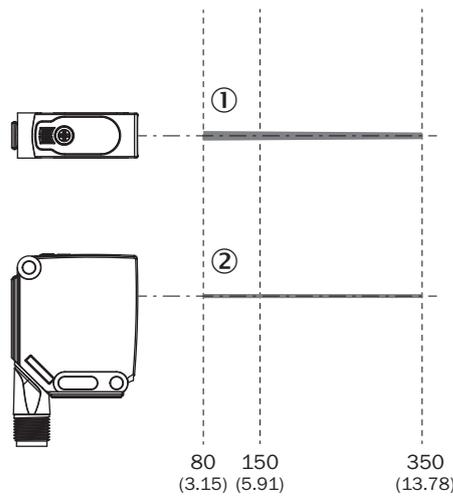
### Light spot size Mode 2

Dimensions in mm (inch)

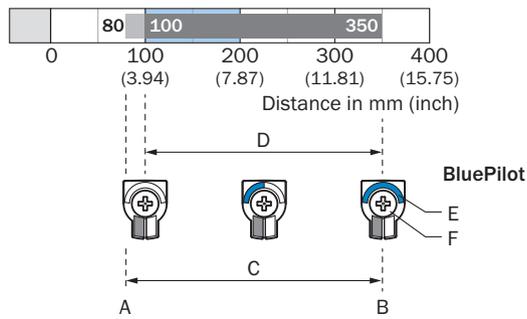


Recommended sensing range for the best performance

- ① Light spot horizontal
- ② Light spot vertical



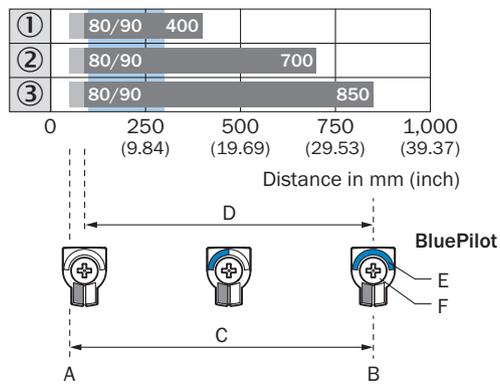
Sensing range diagram Mode 2



Recommended sensing range for the best performance

A	Sensing range min. in mm
B	Sensing range max. in mm
C	Field of view
D	Adjustable switching threshold for foreground suppression
E	Sensing range indicator
F	Teach-Turn adjustment

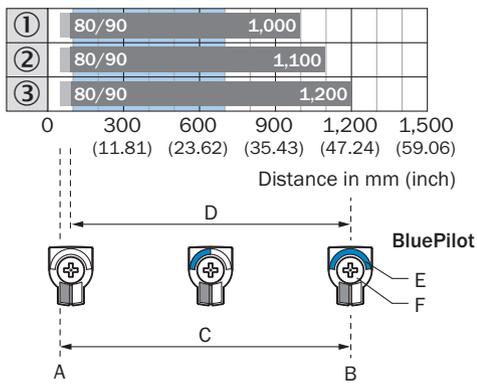
Sensing range diagram Mode 1, 3, 4, 5



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
B	Sensing range max. in mm
C	Field of view
D	Adjustable switching threshold for background suppression
E	Sensing range indicator
F	Teach-Turn adjustment

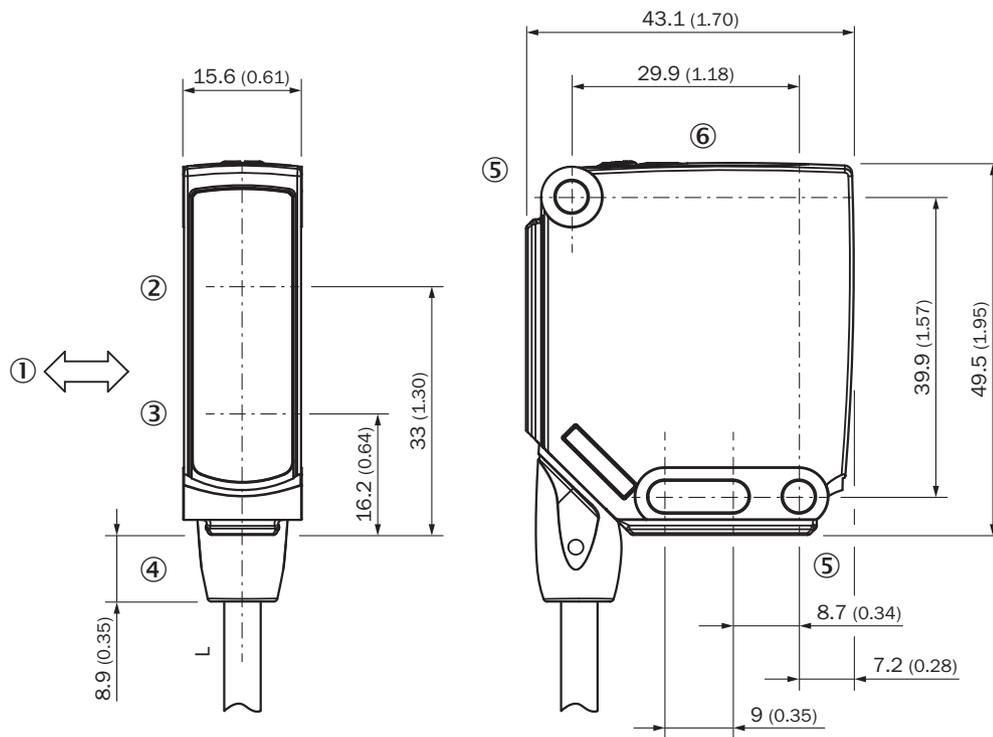
Sensing range diagram Mode 1 and 6 combined



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
B	Sensing range max. in mm
C	Field of view
D	Adjustable switching threshold for background suppression
E	Sensing range indicator
F	Teach-Turn adjustment

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,  $\varnothing$  4.2 mm
- ⑥ display and adjustment elements

Recommended accessories

Other models and accessories → [www.sick.com/W12](http://www.sick.com/W12)

	Brief description	Type	part no.
<b>Mounting systems</b>			
	<ul style="list-style-type: none"> <li><b>Description:</b> Plate N03 for universal clamp bracket, zinc coated</li> <li><b>Material:</b> Steel, zinc diecast</li> <li><b>Details:</b> Zinc plated steel (sheet), Zinc die cast (clamping bracket)</li> <li><b>Items supplied:</b> Universal clamp (5322626), mounting hardware</li> <li><b>Usable for:</b> 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</li> </ul>	BEF-KHS-N03	2051609
	<ul style="list-style-type: none"> <li><b>Description:</b> Clamping block for dovetail mounting</li> <li><b>Material:</b> Aluminum</li> <li><b>Details:</b> Aluminum (anodised)</li> <li><b>Items supplied:</b> Mounting hardware included</li> <li><b>Suitable for:</b> W11-2, W12-3</li> </ul>	BEF-KH-W12	2013285
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket, large</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel</li> <li><b>Items supplied:</b> Mounting hardware included</li> <li><b>Suitable for:</b> W11-2, W12-3, W16</li> </ul>	BEF-WG-W12	2013942
	<ul style="list-style-type: none"> <li><b>Material:</b> Aluminum</li> <li><b>Details:</b> Aluminum</li> <li><b>Items supplied:</b> Including mounting material (sensor) and mounting material (bracket)</li> <li><b>Usable for:</b> Adapter plate for W23L/W27L to W12L</li> </ul>	BEF-AP-W12	2127742
<b>connectors and cables</b>			
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 4-wire, PVC</li> <li><b>Application:</b> Uncontaminated zones, Zones with chemicals</li> </ul>	YF2A14-050VB3XLEAX	2096235
	<ul style="list-style-type: none"> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A14-050UB3XLEAX	2095608

## 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](http://www.sick.com)