SensorsX
SX-DHQF Series

Built-in Amplifier Photoelectric Sensor

Photoelectric Sensors



■ PRODUCT OVERVIEW

The SX-DHQF Series is a compact built-in amplifier photoelectric sensor family designed for reliable object detection in industrial automation equipment. The series covers through-beam, retroreflective, diffuse-reflective, polarized retroreflective, and BGS/FGS distance-setting models, with sensing distances from short-range 10 cm diffuse detection to 60 m long-range laser through-beam detection. Upgraded ASIC sensing circuitry, low current consumption, visible operation/status indicators, NPN/PNP output options, and flexible cable or M8 connector configurations make the series suitable for packaging machinery, conveyor systems, gate equipment, textile machinery, and automated handling applications.

■ KEY FEATURES

◆ Upgraded ASIC Sensing Circuit Improves environmental adaptability and detection performance.

◆ Reduced Power Consumption Reduced current consumption compared with previous-generation models; up to 50% reduction on select models (e.g., 25 mA → 10 mA typical).

◆ Side-by-Side Mounting Without Interference Reflective-mode units may be mounted directly adjacent (up to 3 units) without mutual interference under the specified mounting conditions.

◆ High resistance to interference from variable-frequency drives, inverter-driven lighting, and other high-frequency electrical noise sources.

■ TYPICAL APPLICATIONS

- Gate / Turnstile Systems
- Packaging Machinery
- Multi-Level / Stacker Parking
- Textile Machinery
- Logistics Conveyor Lines

■ BGS / FGS FUNCTIONS

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BGS and FGS functions allow more precise, tighter distance settings for demanding applications.

Function	Application	Operating Principle
Background Suppression (BGS)	No background object present; workpiece is separated from the background. Unaffected by background color changes or by people/objects passing behind the target.	Detects the workpiece when the receiving element (2-segment sensor) receives light at position A. Detection principle is otherwise the same as a standard distance-setting reflective sensor.
Foreground Suppression (FGS)	A background object is present (e.g., a conveyor belt); the workpiece is in contact with or very close to the background; the workpiece is glossy or uneven. Note: FGS must be used with a background object (e.g., a conveyor belt) present.	Detects the workpiece when the receiving element does not receive light at position B. Also detects glossy workpieces reliably even when close to the background.

■ ORDERING / NAMING REFERENCE

Complete model number example: SX-DHQF-VT10BNSR-2M

Meaning	
O	Fixed (non-adjustable) sensing distance
V	Adjustable sensing distance (onboard potentiometer)

Function Type	
T	Through-beam
D	Diffuse (direct-reflective)
R	Retroreflective
P	Polarized retroreflective
B	Background suppression (BGS)

Sensing Distance (Through-Beam)	
10	10 m (32.8 ft)
15	15 m (49.2 ft)
25	25 m (82.0 ft)
30	30 m (98.4 ft) — laser
60	60 m (196.9 ft) — laser

Voltage Range	
B	10 – 30 V DC

Output Type	
N	NPN
P	PNP

Output State	
S	Potentiometer-adjustable NO / NC
O	NO (Normally Open)
C	NC (Normally Closed)

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Output State	
A	NO + NC (dual output)

Light Source	
O	Infrared
R	Red light
L	Red Laser

Cable Length / Connection	
2M	2 m (6.6 ft) standard PVC cable
E1	M8, 4-pin connector

■ INDICATOR LOGIC

Stable Indicator (Green)	Operate Indicator (Yellow)	Output	Detection State
ON (steady)	ON	ON	Stable — receiving light (or stable non-receiving, per mode)
OFF	ON	ON	Unstable — receiving light
OFF	OFF	OFF	Unstable — not receiving light
ON (steady)	OFF	OFF	Stable — not receiving light

■ THROUGH-BEAM TYPE — SELECTION TABLE

Light Source	Sensing Distance	Connection	NPN Model	PNP Model
Red / Infrared	10 m (32.8 ft)	Lead-wire	SX-DHQF-VT10BNSR-2M SX-DHQF-VT10BNSO-2M SX-DHQF-OT10BNSE-2M	SX-DHQF-VT10BPSR-2M SX-DHQF-VT10BPSO-2M SX-DHQF-OT10BPSE-2M
Red / Infrared	10 m (32.8 ft)	Connector (M8, 4-pin)	SX-DHQF-VT10BNSR-E1 SX-DHQF-VT10BNSO-E1 SX-DHQF-OT10BNSE-E1	SX-DHQF-VT10BPSR-E1 SX-DHQF-VT10BPSO-E1 SX-DHQF-OT10BPSE-E1
Red / Infrared	15 m (49.2 ft)	Lead-wire	SX-DHQF-VT15BNSR-2M SX-DHQF-VT15BNSO-2M SX-DHQF-OT15BNSE-2M	SX-DHQF-VT15BPSR-2M SX-DHQF-VT15BPSO-2M SX-DHQF-OT15BPSE-2M
Red / Infrared	15 m (49.2 ft)	Connector (M8, 4-pin)	SX-DHQF-VT15BNSR-E1 SX-DHQF-VT15BNSO-E1 SX-DHQF-OT15BNSE-E1	SX-DHQF-VT15BPSR-E1 SX-DHQF-VT15BPSO-E1 SX-DHQF-OT15BPSE-E1
Infrared	25 m (82.0 ft)	Lead-wire	SX-DHQF-VT25BNSO-2M SX-DHQF-VT25BNSE-2M	SX-DHQF-VT25BPSO-2M SX-DHQF-VT25BPSE-2M
Infrared	25 m (82.0 ft)	Connector (M8, 4-pin)	SX-DHQF-VT25BNSO-E1 SX-DHQF-VT25BNSE-E1	SX-DHQF-VT25BPSO-E1 SX-DHQF-VT25BPSE-E1
Laser	30 m (98.4 ft)	Lead-wire	SX-DHQF-VT30BNSL-2M SX-DHQF-OT30BNEL-2M	SX-DHQF-VT30BPSL-2M SX-DHQF-OT30BPEL-2M
Laser	30 m (98.4 ft)	Connector (M8, 4-pin)	SX-DHQF-VT30BNSL-E1 SX-DHQF-OT30BNEL-E1	SX-DHQF-VT30BPSL-E1 SX-DHQF-OT30BPEL-E1
Laser	60 m (196.9 ft)	Lead-wire	SX-DHQF-VT60BNSL-2M SX-DHQF-OT60BNEL-2M	SX-DHQF-VT60BPSL-2M SX-DHQF-OT60BPEL-2M
Laser	60 m (196.9 ft)	Connector (M8, 4-pin)	SX-DHQF-VT60BNSL-E1 SX-DHQF-OT60BNEL-E1	SX-DHQF-VT60BPSL-E1 SX-DHQF-OT60BPEL-E1

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■ STANDARD TYPE — RATING TABLE

Rating / Performance	
Applicable Types	Through-beam (10 / 15 / 25 m), retroreflective (3 / 4 m), and diffuse-reflective (0.1 / 1 m) standard models
Supply Voltage	10–30 V DC
Output	NPN or PNP open collector; Light-ON / Dark-ON according to ordered model
Output Load	≤ 100 mA; residual voltage ≤ 2 V DC; over-current protection
Current Consumption	Through-beam: emitter ≤ 20 mA, receiver ≤ 15 mA; reflective types: < 20 mA
Response Time	< 1 ms
Light Source	Infrared LED 850 nm; red LED 620 nm or 660 nm, depending on model
Directional Angle	Through-beam: 3–15°; retroreflective: 2–10°
Indicators	Operate indicator: orange LED; power/stability indicator: green LED
Connection	PVC cable, 2 m standard, or M8 4-pin connector according to model
Ambient Temperature / Humidity	Operating: −25 to +55 °C, 35–85% RH; storage: −40 to +70 °C, 35–85% RH; non-condensing / non-freezing
Ambient Light Immunity	Sunlight: 10,000 lx; incandescent lamp: 3,000 lx
Dielectric Strength	1,000 V AC, 50/60 Hz for 1 min, between all live parts and housing
Insulation Resistance	≥ 20 MΩ at 500 V DC, between all live parts and housing
Vibration Resistance	10–55 Hz, 1.5 mm double amplitude, 2 h per axis (X, Y, Z)
Shock Resistance	500 m/s², 3 shocks per axis (X, Y, Z)
Ingress Protection	IEC IP67
Materials	Housing: PBT; lens: optical PMMA

■ LASER TYPE — RATING TABLE

Rating / Performance	
Applicable Types	Through-beam laser: 30 m / 60 m; retroreflective laser: 5 m
Beam Diameter / Target	Approx. Ø5 mm at 3 m; standard opaque target ≥ Ø12 mm; minimum opaque target approx. Ø6 mm at 3 m
Directional Angle	3–15°
Supply Voltage	10–30 V DC
Output	NPN or PNP open collector; Light-ON / Dark-ON according to ordered model
Output Load / Residual Voltage	≤ 100 mA; ≤ 1 V at load < 10 mA; ≤ 2 V at 10–100 mA
Current Consumption	Through-beam: emitter ≤ 10 mA, receiver ≤ 10 mA; retroreflective: < 15 mA
Response Time	< 1 ms

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Rating / Performance	
Sensitivity Adjustment	Single-turn potentiometer
Light Source	680 nm VCSEL red laser
Protection	Reverse-polarity protection, output short-circuit protection, and mutual-interference prevention
Indicators	Operate indicator: orange LED; power/stability indicator: green LED
Connection	Prewired connector or 2 m standard cable, according to model
Ambient Temperature / Humidity	Operating: −25 to +55 °C, 35–85% RH; storage: −40 to +70 °C, 35–85% RH; non-condensing / non-freezing
Ambient Light Immunity	Sunlight: 10,000 lx; incandescent lamp: 3,000 lx
Dielectric Strength	1,000 V AC, 50/60 Hz for 1 min, between all live parts and housing
Insulation Resistance	≥ 20 MΩ at 500 V DC, between all live parts and housing
Vibration / Shock Resistance	10–55 Hz, 1.5 mm double amplitude, 2 h per axis; 500 m/s², 3 shocks per axis
Ingress Protection / Materials	IEC IP67; housing: PBT; lens: optical PMMA

■ RETROREFLECTIVE / DIFFUSE / BGS — SELECTION TABLE

Function	Sensing Distance	Connection	NPN Model	PNP Model
Retroreflective (with M/S/R functions)	3 m (9.8 ft)	Lead-wire	SX-DHQF-VP03BNSR-2M	SX-DHQF-VP03BPSR-2M
Retroreflective (with M/S/R functions)	3 m (9.8 ft)	Connector (M8-4Pin)	SX-DHQF-VP03BNSR-E1	SX-DHQF-VP03BPSR-E1
Retroreflective (no M/S/R functions)	4 m (13.1 ft)	Lead-wire	SX-DHQF-VR04BNSR-2M SX-DHQF-VR04BNSO-2M	SX-DHQF-VR04BPSO-2M
Retroreflective (no M/S/R functions)	4 m (13.1 ft)	Connector (M8-4Pin)	SX-DHQF-VR04BNSR-E1 SX-DHQF-VR04BNSO-E1	SX-DHQF-VR04BPSO-E1
Retroreflective, Laser	5 m (16.4 ft)	Lead-wire	SX-DHQF-VR05BNSL-2M	SX-DHQF-VR05BPSL-2M
Retroreflective, Laser	5 m (16.4 ft)	Connector (M8-4Pin)	SX-DHQF-VR05BNSL-E1	SX-DHQF-VR05BPSL-E1
Diffuse, Long-Range (Red / Infrared)	1 m (3.3 ft)	Lead-wire	SX-DHQF-VD01BNSR-2M SX-DHQF-VD01BNSO-2M	SX-DHQF-VD01BPSR-2M SX-DHQF-VD01BPSO-2M
Diffuse, Long-Range (Red / Infrared)	1 m (3.3 ft)	Connector (M8-4Pin)	SX-DHQF-VD01BNSR-E1 SX-DHQF-VD01BNSO-E1	SX-DHQF-VD01BPSR-E1 SX-DHQF-VD01BPSO-E1
Diffuse, Short-Range (Infrared)	10 cm (3.9 in)	Lead-wire	SX-DHQF-VD10BNSO-2M	SX-DHQF-VD10BPSO-2M
Diffuse, Short-Range (Infrared)	10 cm (3.9 in)	Connector (M8-4Pin)	SX-DHQF-VD10BNSO-E1	SX-DHQF-VD10BPSO-E1
Reflective, FGS/BGS (Red)	20–150 mm (0.79–5.91 in)	Lead-wire	SX-DHQF-VB15BNSS-2M	SX-DHQF-VB15BPSS-2M
Reflective, FGS/BGS (Red)	20–150 mm (0.79–5.91 in)	Connector (M8-4Pin)	SX-DHQF-VB15BNSS-E1	SX-DHQF-VB15BPSS-E1
Reflective, FGS/BGS (Red)	10–100 mm (0.39–3.94 in)	Lead-wire	SX-DHQF-VB10BNSR-2M	SX-DHQF-VB10BPSR-2M
Reflective, FGS/BGS (Red)	10–100 mm (0.39–3.94 in)	Connector (M8-4Pin)	SX-DHQF-VB10BNSR-E1	SX-DHQF-VB10BPSR-E1
Reflective, FGS/BGS (Red)	20–200 mm (0.79–7.87 in)	Lead-wire	SX-DHQF-VB20BNSR-2M	SX-DHQF-VB20BPSR-2M

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Function	Sensing Distance	Connection	NPN Model	PNP Model
Reflective, FGS/BGS (Red)	20–200 mm (0.79–7.87 in)	Connector (M8-4Pin)	SX-DHQF-VB20BNSR-E1	SX-DHQF-VB20BPSR-E1
Reflective, FGS/BGS (Red)	30–300 mm (1.18–11.81 in)	Lead-wire	SX-DHQF-VB30BNSR-2M	SX-DHQF-VB30BPSR-2M
Reflective, FGS/BGS (Red)	30–300 mm (1.18–11.81 in)	Connector (M8-4Pin)	SX-DHQF-VB30BNSR-E1	SX-DHQF-VB30BPSR-E1

■ BGS / FGS TYPE — RATING TABLE

Rating / Performance	
Sensing Range	20–150 mm / 10–100 mm / 20–200 mm / 30–300 mm, depending on model
Reference Target	White paper, 100 × 100 mm
Reflectance / Hysteresis	Black/white deviation ≤ 10% of set distance; hysteresis ≤ 10% of set distance
Supply Voltage / Current	10–30 V DC; current consumption < 30 mA
Output	NPN or PNP open collector; Light-ON / Dark-ON selectable; load ≤ 100 mA
Light Source	Red LED: 640 nm for 20–150 mm models; 620 nm for other BGS/FGS models
Response Time / Adjustment	< 1 ms; five-turn distance-adjustment potentiometer
Indicators	Operate indicator: orange LED; power/stability indicator: green LED
Ambient Light Immunity	Sunlight: 10,000 lx; incandescent lamp: 3,000 lx
Ambient Temperature / Humidity	Operating: −25 to +55 °C, 35–85% RH; storage: −40 to +70 °C, 35–85% RH; non-condensing / non-freezing
Dielectric Strength	1,000 V AC, 50/60 Hz for 1 min, between all live parts and housing
Insulation Resistance	≥ 20 MΩ at 500 V DC, between all live parts and housing
Vibration / Shock Resistance	10–55 Hz, 1.5 mm double amplitude, 2 h per axis; 500 m/s², 3 shocks per axis
Connection	PVC cable, 2 m standard, or M8 4-pin connector according to model
Ingress Protection / Materials	IEC IP67; housing: PBT; lens: optical PMMA

■ WIRING DIAGRAM

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Output Circuit Diagrams for Through-beam, Retro-reflective, and Diffuse-reflective Types

• NPN Open-Collector Output

Model	Operating Mode	Timing Chart	Output Circuit
SX-DHQF-VT10BNS□/-E1 SX-DHQF-VT15BNS□/-E1 SX-DHQF-VT25BNS□/-E1 SX-DHQF-VT30BNSL/-E1 SX-DHQF-VT60BNSL/-E1 SX-DHQF-VP03BNS□/-E1 SX-DHQF-VR04BNS□/-E1 SX-DHQF-VR05BNSL/-E1 SX-DHQF-VD01BNS□/-E1 SX-DHQF-VD10BNS□/-E1	Light ON (Beam received mode)	Light status: Beam received / Beam interrupted Operation indicator (red LED): ON / OFF TR output: ON / OFF	(Through-beam receiver), (Retro-reflective type), (Diffuse-reflective type) Brown — 10–30 V DC +V Black — Load — OUTPUT 100 mA max. Blue — 0V Main Circuit Overcurrent Protection Circuit
	Dark ON (Beam interrupted mode)	Light status: Beam received / Beam interrupted Operation indicator (red LED): ON / OFF TR output: ON / OFF	(Through-beam emitter) Brown — 10–30 V DC +V Blue — 0V Main Circuit

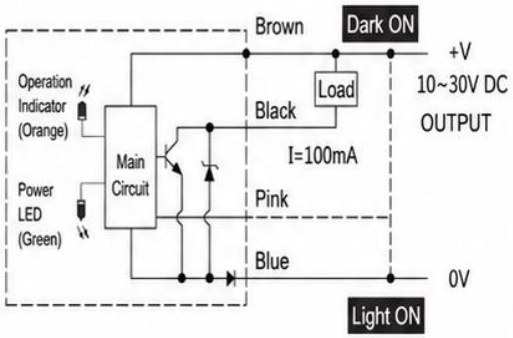
• PNP Open-Collector Output

Model	Operating Mode	Timing Chart	Output Circuit
SX-DHQF-VT10BPS□/-E1 SX-DHQF-VT15BPS□/-E1 SX-DHQF-VT25BPS□/-E1 SX-DHQF-VT30BPSL/-E1 SX-DHQF-VT60BPSL/-E1 SX-DHQF-VP03BPS□/-E1 SX-DHQF-VR04BPS□/-E1 SX-DHQF-VR05BPSL/-E1 SX-DHQF-VD01BPS□/-E1 SX-DHQF-VD10BPS□/-E1	Light ON (Beam received mode)	Light status: Beam received / Beam interrupted Operation indicator (red LED): ON / OFF TR output: ON / OFF	(Through-beam receiver), (Retro-reflective type), (Diffuse-reflective type) Brown — 10–30 V DC +V Black — OUTPUT 100 mA max. Load Blue — 0V Main Circuit Overcurrent Protection Circuit
	Dark ON (Beam interrupted mode)	Light status: Beam received / Beam interrupted Operation indicator (red LED): ON / OFF TR output: ON / OFF	(Through-beam emitter) Brown — 10–30 V DC +V Blue — 0V Main Circuit

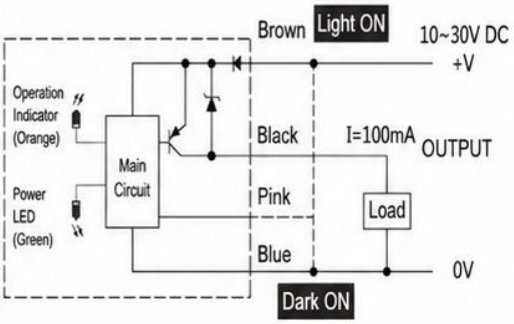
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BGS/FGS Output Circuit Diagram

• NPN Open Collector Output

Model	Operating Mode	Timing Chart	Output Circuit
SX-DHQF-VB15BNSS/-E1 SX-DHQF-VB10BNSS/-E1 SX-DHQF-VB20BNSS/-E1 SX-DHQF-VB30BNSS/-E1	Light ON (Light Received Mode)	Light Received Status: Light Received / Light Blocked Operation Indicator (Red LED): ON / OFF TR Output: ON / OFF	
	Dark ON (Light Blocked Mode)	Light Received Status: Light Received / Light Blocked Operation Indicator (Red LED): ON / OFF TR Output: ON / OFF	

• PNP Open Collector Output

Model	Operating Mode	Timing Chart	Output Circuit
SX-DHQF-VB15BPSS/-E1 SX-DHQF-VB10BPSS/-E1 SX-DHQF-VB20BPSS/-E1 SX-DHQF-VB30BPSS/-E1	Light ON (Light Received Mode)	Light Received Status: Light Received / Light Blocked Operation Indicator (Red LED): ON / OFF TR Output: ON / OFF	
	Dark ON (Light Blocked Mode)	Light Received Status: Light Received / Light Blocked Operation Indicator (Red LED): ON / OFF TR Output: ON / OFF	

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Configuration	Terminal / Wire	Function
Standard — Receiver / Reflective (3-wire)	Brown	+V
Standard — Receiver / Reflective (3-wire)	Black	Output (≤ 100 mA, over-current protected)
Standard — Receiver / Reflective (3-wire)	Blue	0 V
Standard — Emitter, Through-Beam (2-wire)	Brown	+V
Standard — Emitter, Through-Beam (2-wire)	Blue	0 V
BGS / FGS Type (3-wire + adjust)	Brown	+V
BGS / FGS Type (3-wire + adjust)	Black	Output (I = 100 mA)
BGS / FGS Type (3-wire + adjust)	Blue	0 V
BGS / FGS Type (3-wire + adjust)	Pink	Dark-ON / Light-ON mode select

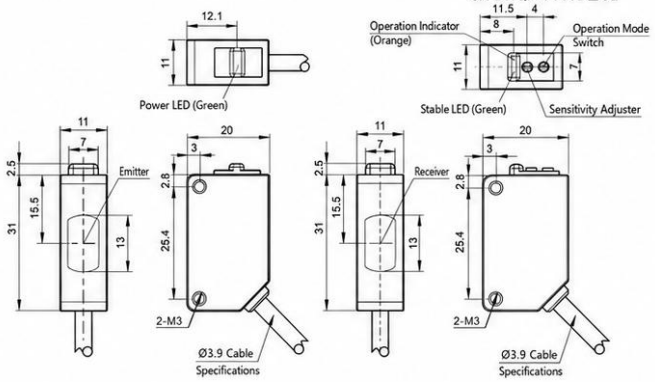
Configuration	Mode / Circuit	Description
Standard Receiver / Reflective Models	Light-ON / Dark-ON	NPN and PNP open-collector output circuits are available. The red operate indicator follows the selected output mode.
Through-Beam Emitter	2-wire power input	Brown = +V; Blue = 0 V.
BGS / FGS Models	Light-ON / Dark-ON select	Pink wire selects Dark-ON / Light-ON mode. NPN and PNP output circuit configurations are available.
Output Protection	Over-current protection	Output circuit includes over-current protection as shown in the output circuit diagrams.

■ DIMENSIONS

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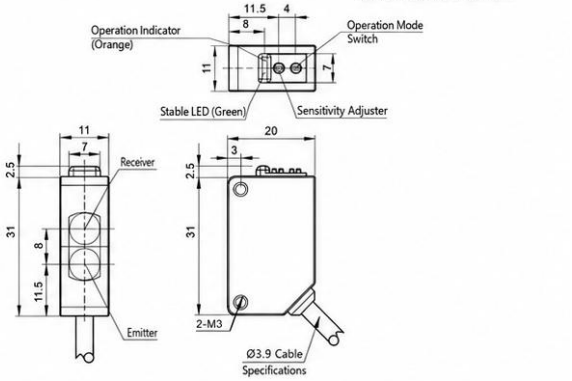
Through-beam Type

Sensor	SX-DHQF-VT10B□S□ SX-DHQF-VT15B□S□ SX-DHQF-VT25B□S□ SX-DHQF-VT30B□SL SX-DHQF-VT60B□SL



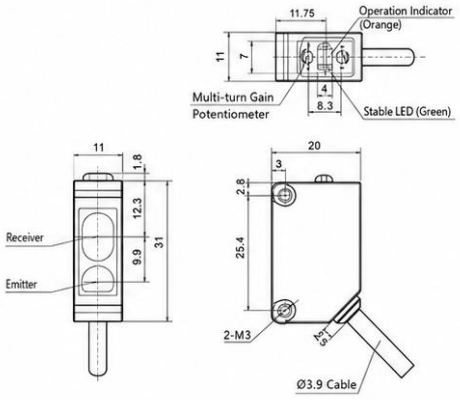
Retro-reflective Type Diffuse-reflective Type

Sensor	SX-DHQF-VR04B□S□ SX-DHQF-VR05B□SL SX-DHQF-VP03B□S□ SX-DHQF-VD10B□S□ SX-DHQF-VD01B□S□



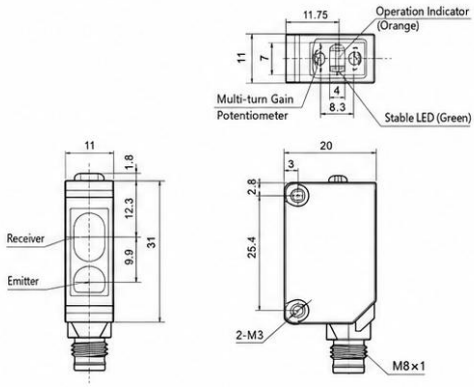
FGS/BGS

Sensor	SX-DHQF-VB15B□SS SX-DHQF-VB10B□SR SX-DHQF-VB20B□SR SX-DHQF-VB30B□SR



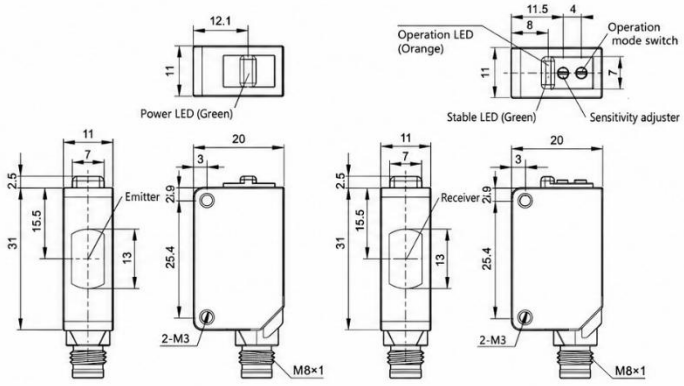
FGS/BGS

Sensor	SX-DHQF-VB15B□SS-E1 SX-DHQF-VB10B□SR-E1 SX-DHQF-VB20B□SR-E1 SX-DHQF-VB30B□SR-E1



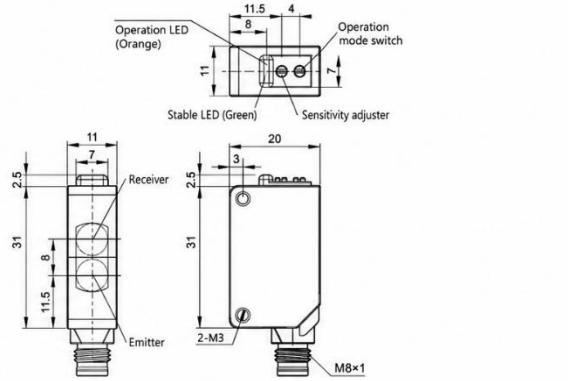
Through-beam Type

Sensor	SX-DHQF-VT10B□S□-E1 SX-DHQF-VT15B□S□-E1 SX-DHQF-VT25B□S□-E1 SX-DHQF-VT30B□SL-E1 SX-DHQF-VT60B□SL-E1



Retro-reflective Type Diffuse Reflection Type

Sensor	SX-DHQF-VR04B□S□-E1 SX-DHQF-VR05B□SL-E1 SX-DHQF-VP03B□S□-E1 SX-DHQF-VD10B□S□-E1 SX-DHQF-VD01B□S□-E1



Dimensional Reference

Through-Beam Type	Lead-wire and M8 connector dimensions cover the corresponding SX-DHQF-VT□□ through-beam models.

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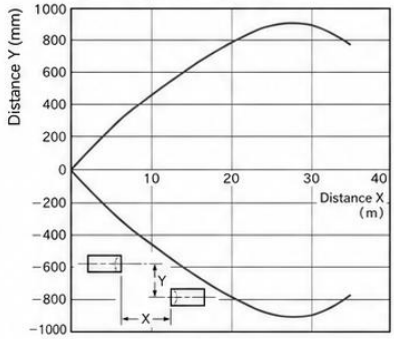
Dimensional Reference	
Retroreflective / Diffuse Type	Lead-wire and M8 connector dimensions cover SX-DHQF-VP□□, SX-DHQF-VR□□, and SX-DHQF-VD□□ variants.
BGS / FGS Type	Lead-wire and M8 connector dimensions cover SX-DHQF-VB□□ background/foreground-suppression variants.
Installation Note	Dimensions are provided for reference only. For final mounting design, use the detailed dimensional drawings and applicable tolerances.

■ ENGINEERING DATA

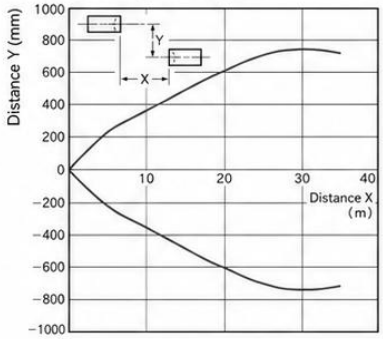
Parallel Displacement Characteristics

Through-beam Type

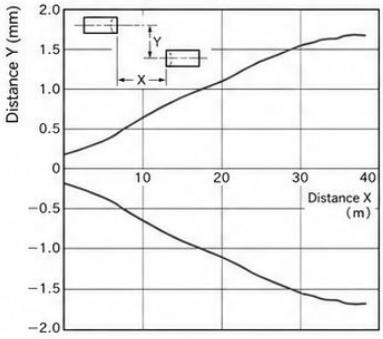
SX-DHQF-VT15□□



SX-DHQF-VT10□□

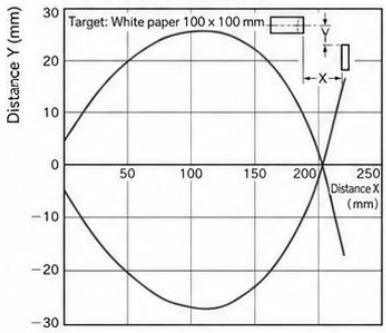


SX-DHQF-VT25□□

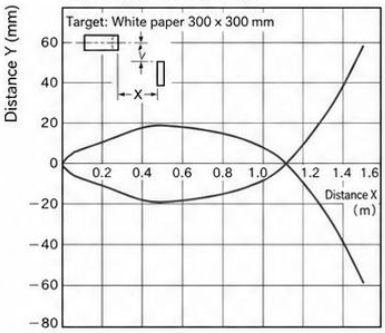


Diffuse Reflective Type

SX-DHQF-VD10□□

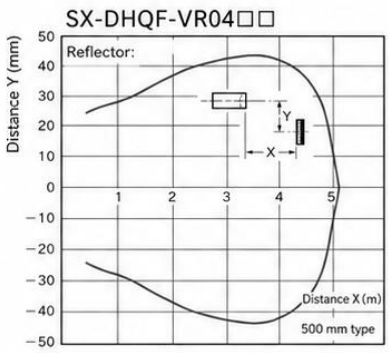


SX-DHQF-VD01□□



Retro-reflective Type

SX-DHQF-VR04□□



Note: Curves vary with different reflectors.

The information in this document is subject to change without notice. SensorsX Technology Inc. assumes no responsibility for errors or omissions.

■ MOUNTING & OPTICAL AXIS ALIGNMENT

Mounting

- Do not strike the sensor with hard objects or over-stress the cable during installation; this can damage water resistance.
- M3 mounting screw with spring washer, flat washer, or tooth lock washer; tighten to ≤ 0.3 N·m (2.7 lbf·in).
- An optional mounting bracket is available separately; use M3 (triple-set) screws at a maximum tightening torque of 0.5 N·m (4.43 lbf·in).

BGS Reflective-Type Installation Notes

- The sensor's detection face must be mounted parallel to the target surface.
- Where the target surface has high gloss or reflectivity and the background does not affect detection, a 5–10° mounting angle between sensor and target is permitted.
- When mounting, refer to the target's direction of travel relative to the sensor.

Optical Axis Alignment — Through-Beam

- With emitter and receiver powered and facing each other, adjust receiver position (up/down/left/right) to find the center of the operate-indicator active window, then secure both units at that position.

Optical Axis Alignment — BGS Reflective Type

- With the target in place, adjust sensor position (up/down/left/right) to find the center of the operate-indicator active window; mount with the sensing face parallel to the target surface.

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