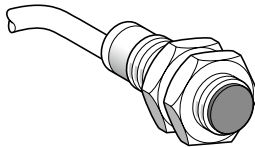
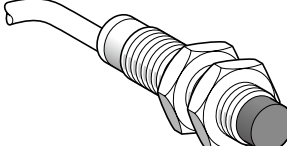
**Features**

- **Wide product range**
Types: DC 3-wire shielded type
DC 3-wire non-shielded type
DC 2-wire standard type
DC 2-wire long range type
Size: M8, M12, M18, M30
Connector: 2 m cable length type
M12 plug-in connector type
M12 pigtailed type (DC 2-wire
M8 type only)
- **Strong resistance IP68 (GX-M8□: IP67)**

ORDER GUIDE**DC 3-wire type (2 m cable length type)**

| Type | | Appearance | Sensing range (Note 1,2) | Model No. | | Output operation |
|--------------|-----|--|--|------------|------------|------------------|
| | | | | NPN output | PNP output | |
| Shielded | M8 |  Ex.) GX-M12□ | Max. operation distance: 1.5 mm 0.06 in (Stable sensing range 0 to 1.2 mm 0.05 in) | GX-M8A | GX-M8A-P | Normally open |
| | | | | GX-M8B | GX-M8B-P | Normally closed |
| | M12 | | Max. operation distance: 2 mm 0.08 in (Stable sensing range 0 to 1.6 mm 0.06 in) | GX-M12A | GX-M12A-P | Normally open |
| | | | | GX-M12B | GX-M12B-P | Normally closed |
| | M18 | | Max. operation distance: 5 mm 0.20 in (Stable sensing range 0 to 4 mm 0.16 in) | GX-M18A | GX-M18A-P | Normally open |
| | | | | GX-M18B | GX-M18B-P | Normally closed |
| | M30 | | Max. operation distance: 10 mm 0.39 in (Stable sensing range 0 to 8 mm 0.32 in) | GX-M30A | GX-M30A-P | Normally open |
| | | | | GX-M30B | GX-M30B-P | Normally closed |
| Non-shielded | M12 |  Ex.) GX-MK12□ | Max. operation distance: 7 mm 0.28 in (Stable sensing range 0 to 5.6 mm 0.22 in) | GX-MK12A | GX-MK12A-P | Normally open |
| | | | | GX-MK12B | GX-MK12B-P | Normally closed |
| | M18 | | Max. operation distance: 12 mm 0.47 in (Stable sensing range 0 to 9.6 mm 0.38 in) | GX-MK18A | GX-MK18A-P | Normally open |
| | | | | GX-MK18B | GX-MK18B-P | Normally closed |
| | M30 | | Max. operation distance: 22 mm 0.87 in (Stable sensing range 0 to 17.6 mm 0.69 in) | GX-MK30A | GX-MK30A-P | Normally open |
| | | | | GX-MK30B | GX-MK30B-P | Normally closed |

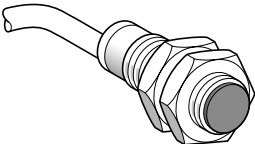
Notes: 1) It is the value in state where the circumference of a detection side has a metal object.

2) The maximum operation distance stands for the maximum distance for which the sensor can detect the standard sensing object.

The stable sensing range stands for the sensing range for which the sensor can stably detect the standard sensing object even if there is an ambient temperature drift and/or supply voltage fluctuation.

ORDER GUIDE

DC 2-wire type (2 m cable length type)

| Type | | Appearance | Sensing range (Note 1,2) | Model No. | Output operation |
|------------|---|---|---|-----------------|------------------|
| Standard | M8 |  Ex.) GX-M12□-U | Max. operation distance: 1.5 mm 0.06 in (Stable sensing range 0 to 1.2 mm 0.05 in) | GX-M8A-U | Normally open |
| | | | | GX-M8B-U | Normally closed |
| | M12 | | Max. operation distance: 2 mm 0.08 in (Stable sensing range 0 to 1.6 mm 0.06 in) | GX-M12A-U | Normally open |
| | | | | GX-M12B-U | Normally closed |
| M18 | Max. operation distance: 5 mm 0.20 in (Stable sensing range 0 to 4 mm 0.16 in) | | GX-M18A-U | Normally open | |
| | | | GX-M18B-U | Normally closed | |
| Long range | M30 | | Max. operation distance: 10 mm 0.39 in (Stable sensing range 0 to 8 mm 0.32 in) | GX-M30A-U | Normally open |
| | | | | GX-M30B-U | Normally closed |
| | M8 | Max. operation distance: 2.5 mm 0.10 in (Stable sensing range 0 to 2 mm 0.08 in) | GX-ML8A-U | Normally open | |
| | | | GX-ML8B-U | Normally closed | |
| M12 | Max. operation distance: 4 mm 0.16 in (Stable sensing range 0 to 3.2 mm 0.13 in) | GX-ML12A-U | Normally open | | |
| | | GX-ML12B-U | Normally closed | | |
| M18 | Max. operation distance: 8 mm 0.32 in (Stable sensing range 0 to 6.4 mm 0.25 in) | GX-ML18A-U | Normally open | | |
| | | GX-ML18B-U | Normally closed | | |
| M30 | Max. operation distance: 15 mm 0.59 in (Stable sensing range 0 to 12 mm 0.47 in) | GX-ML30A-U | Normally open | | |
| | | GX-ML30B-U | Normally closed | | |

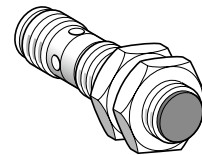
Notes: 1) It is the value in state where the circumference of a detection side has a metal object.

2) The maximum operation distance stands for the maximum distance for which the sensor can detect the standard sensing object.
The stable sensing range stands for the sensing range for which the sensor can stably detect the standard sensing object even if there is an ambient temperature drift and/or supply voltage fluctuation.

M12 plug-in connector type (except for GX-M8□-U and GX-ML8□-U)

M12 plug-in connector type is also available.

When ordering this type, “-Z” for the M12 plug-in connector type to the model No.
(e.g.) M12 plug-in connector type of **GX-M8A-P** is “**GX-M8A-P-Z**”.



M12 pigtailed type (for GX-M8□-U and GX-ML8□-U only)

M12 pigtailed type is also available.

When ordering this type, “-J” for the M12 pigtailed type to the model No.
(e.g.) M12 pigtailed type of **GX-M8A-U** is “**GX-M8A-U-J**”.

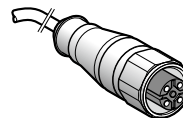
Mating cable (2 cables are required for the thru-beam type.)

| Type | Model No. | Description |
|--------------------------------|-----------|---|
| For M12 plug-in connector type | Straight | CN-24C-C2 Length: 2 m 6.56 ft |
| | | CN-24C-C5 Length: 5 m 16.40 ft |
| | Elbow | CN-24CL-C2 Length: 2 m 6.56 ft |
| | | CN-24CL-C5 Length: 5 m 16.40 ft |

Clamping ring :
ø14mm **0.55 in**
Cable outer :
ø5.3mm **0.21 in**

Mating cable

• Straight type



• Elbow type



SPECIFICATIONS

DC 3-wire type

| Item | Model No. | Type | Shielded type | | | | Non-shielded type | | |
|--------------------------|----------------------------|--|--|--|--|--|--|--|--|
| | | Normally open | GX-M8A□ | GX-M12A□ | GX-18A□ | GX-M30A□ | GX-MK12A□ | GX-MK18A□ | GX-MK30A□ |
| | | Normally closed | GX-M8B□ | GX-M12B□ | GX-18B□ | GX-M30B□ | GX-MK12B□ | GX-MK18B□ | GX-MK30B□ |
| | | Max. operation distance (Note 2,3) | 1.5 mm 0.06 in ±10 % | 2 mm 0.08 in ±10 % | 5 mm 0.20 in ±10 % | 10 mm 0.39 in ±10 % | 7 mm 0.28 in ±10 % | 12 mm 0.47 in ±10 % | 22 mm 0.87 in ±10 % |
| | | Stable sensing range (Note 2,3) | 0 to 1.2 mm 0 to 0.05 in | 0 to 1.6 mm 0 to 0.06 in | 0 to 4 mm 0 to 0.16 in | 0 to 8 mm 0 to 0.32 in | 0 to 5.6 mm 0 to 0.22 in | 0 to 9.6 mm 0 to 0.38 in | 0 to 17.6 mm 0 to 0.69 in |
| | | Standard sensing object | Iron sheet 8 × 8 × 1 mm 0.32 × 0.32 × 1.04 in | Iron sheet 12 × 12 × 1 mm 0.47 × 0.47 × 1.04 in | Iron sheet 18 × 18 × 1 mm 0.71 × 0.71 × 1.04 in | Iron sheet 30 × 30 × 1 mm 1.18 × 1.18 × 1.04 in | Iron sheet 24 × 24 × 1 mm 0.94 × 0.94 × 1.04 in | Iron sheet 24 × 24 × 1 mm 0.94 × 0.94 × 1.04 in | Iron sheet 45 × 45 × 1 mm 1.77 × 1.77 × 1.04 in |
| | | Hysteresis (Note 2) | 15 % or less of operation distance (with standard sensing object) | | | | | | |
| | | Repeatability (Note 2) | Along sensing axis: 5 % or less of operation distance | | | | | | |
| | | Supply voltage | 12 to 24 V DC ±10 % Ripple P-P 10 % or less | | | | | | |
| | | Current consumption (Note 4) | 10 mA or less | | | | | | |
| Output | | | <NPN output type> NPN open-collector transistor • Maximum sink current 200 mA • Applied voltage: 24 V DC or less (between output and 0 V) • Residual voltage 2 V or less | | | | <PNP output type> PNP open-collector transistor • Maximum source current 200 mA • Applied voltage: 24 V DC or less (between output and + V) • Residual voltage 2 V or less | | |
| | | Utilization category | DC-12 or DC-13 | | | | | | |
| | | Short-circuit protection | Incorporated | | | | | | |
| | | Max. response frequency | 5 kHz | 5 kHz | 2 kHz | 1 kHz | 2.5 kHz | 1 kHz | 0.5 kHz |
| | | Operation indicator | Yellow LED (lights up when the output is ON) | | | | | | |
| Environmental resistance | Pollution degree | 3 (industrial enviroment) | | | | | | | |
| | Protection | IP67 (IEC) | IP69K (DIN), IP68 (IEC) (2 m cable length type only) , IP67 (IEC) (M12 plug-in connector type only) | | | | | | |
| | Ambient temperature | -25 to +70 °C -13 to +158 °F, Storage: -40 to +85 °C -40 to +185 °F | | | | | | | |
| | Ambient humidity | 50 % RH or less (at +70 °C +158 °F) | | | | | | | |
| | EMC | EN 60947-5-2 | | | | | | | |
| | Voltage withstandability | 500 V AC for one min. between all supply terminals connected together and enclosure | | | | | | | |
| | Vibration resistance | 10 to 55 Hz frequency, 0.5 mm 0.02 in amplitude in X, Y and Z directions for 1.5 hours each | | | | | | | |
| | Shock resistance | 294 m/s ² acceleration (30 G approx.) in X, Y and Z directions for three times each | | | | | | | |
| | | Sensing range variation (Note 2) | Within ±10 % fluctuation of sensing range at +23 °C +73 °F and rated voltage in the range of allowable temperature and supply voltage | | | | | | |
| | | Material | Enclosure: Brass (Nickel plated), Sensing part: PPS | | | | | | |
| | | Cable (except for M12 plug-in connector type) | 0.44 mm ² (0.15 mm ² for GX-M8□) 3-core cabtyre cable, 2 m 6.56 ft long | | | | | | |
| | | Cable extension | Extension up to total 10 m 32.80 ft is possible with 0.34 mm ² , or more, cable. | | | | | | |
| Net weight (Note 5) | 2 m cable length type | 40 g approx. | 70 g approx. | 90 g approx. | 150 g approx. | 75 g approx. | 100 g approx. | 180 g approx. | |
| | M12 plug-in connector type | 15 g approx. | 20 g approx. | 45 g approx. | 110 g approx. | 25 g approx. | 55 g approx. | 140 g approx. | |
| | | Accessories | Nut: 2 pcs. | | | | | | |

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C **+73.4 °F**.

2) It is the value in state where the circumference of a detection side has a metal object.

3) The maximum operation distance stands for the maximum distance for which the sensor can detect the standard sensing object.

The stable sensing range stands for the sensing range for which the sensor can stably detect the standard sensing object even if there is an ambient temperature drift and/or supply voltage fluctuation.

4) It is the leakage current when the output is in the OFF state.

5) The weight includes the weight of two nuts.

SPECIFICATIONS

DC 2-wire type

| Item | Model No. | Type | Standard type | | | | Long range type | | | |
|---|---|-----------------|---|---|---|---|---|---|---|---|
| | | Normally open | GX-M8A-U(-J) | GX-M12A-U(-Z) | GX-M18A-U(-Z) | GX-M30A-U(-Z) | GX-ML8A-U(-J) | GX-ML12A-U(-Z) | GX-ML18A-U(-Z) | GX-ML30A-U(-Z) |
| | | Normally closed | GX-M8B-U(-J) | GX-M12B-U(-Z) | GX-M18B-U(-Z) | GX-M30B-U(-Z) | GX-ML8B-U(-J) | GX-ML12B-U(-Z) | GX-ML18B-U(-Z) | GX-ML30B-U(-Z) |
| Max. operation distance (Note 2,3) | | | 1.5 mm 0.06 in ±10 % | 2 mm 0.08 in ±10 % | 5 mm 0.20 in ±10 % | 10 mm 0.39 in ±10 % | 2.5 mm 0.10 in ±10 % | 4 mm 0.16 in ±10 % | 8 mm 0.32 in ±10 % | 15 mm 0.59 in ±10 % |
| Stable sensing range (Note 2,3) | | | 0 to 1.2 mm 0 to 0.05 in | 0 to 1.6 mm 0 to 0.06 in | 0 to 4 mm 0 to 0.09 in | 0 to 8 mm 0 to 0.22 in | 0 to 2 mm 0 to 0.08 in | 0 to 3.2 mm 0 to 0.13 in | 0 to 6.4 mm 0 to 0.25 in | 0 to 12 mm 0 to 0.47 in |
| Standard sensing object | | | Iron sheet 8 × 8 × 1 mm 0.32 × 0.32 × 10.04 in | Iron sheet 12 × 12 × 1 mm 0.47 × 0.47 × 10.04 in | Iron sheet 18 × 18 × 1 mm 0.71 × 0.71 × 10.04 in | Iron sheet 30 × 30 × 1 mm 1.18 × 1.18 × 10.04 in | Iron sheet 8 × 8 × 1 mm 0.32 × 0.32 × 10.04 in | Iron sheet 12 × 12 × 1 mm 0.47 × 0.47 × 10.04 in | Iron sheet 18 × 18 × 1 mm 0.71 × 0.71 × 10.04 in | Iron sheet 30 × 30 × 1 mm 1.18 × 1.18 × 10.04 in |
| Hysteresis (Note 2) | | | 15 % or less of operation distance (with standard sensing object) | | | | | | | |
| Repeatability (Note 2) | | | Along sensing axis: 5 % or less of operation distance | | | | | | | |
| Supply voltage | | | 12 to 24 V DC ±10 % Ripple P-P 10 % or less | | | | | | | |
| Current consumption (Note 4) | | | 0.5 mA or less | | | | | | | |
| Output | | | Non-contact DC 2-wire type • Load current: 1.5 to 100 mA • Residual voltage: 4.2 V or less (Note 5) | | | | | | | |
| | | | Utilization category | | | DC-12 or DC-13 | | | | |
| | | | Short-circuit protection | | | Incorporated | | | | |
| Max. response frequency | | | 1 kHz | 1 kHz | 1.2 kHz | 1.3 kHz | 1.1 kHz | 1.3 kHz | 1.5 kHz | 0.8 kHz |
| Operation indicator | | | Yellow LED (lights up when the output is ON) | | | | | | | |
| Environmental resistance | Pollution degree | | 3 (Industrial environment) | | | | | | | |
| | Protection | | IP67 (IEC) | IP69K (DIN), IP68 (IEC) (2 m cable length type only) , IP67 (IEC) (M12 plug-in connector type only) | | | | | | |
| | Ambient temperature | | −25 to +70 °C −13 to +158 °F, Storage: −40 to +85 °C −40 to +185 °F | | | | | | | |
| | Ambient humidity | | 50 % RH or less (at +70 °C +158 °F) | | | | | | | |
| | EMC | | EN 60947-5-2 | | | | | | | |
| | Voltage withstandability | | 500 V AC for one min. between all supply terminals connected together and enclosure | | | | | | | |
| | Vibration resistance | | 10 to 55 Hz frequency, 0.5 mm 0.02 in amplitude in X, Y and Z directions for 1.5 hours each | | | | | | | |
| | Shock resistance | | 294 m/s ² acceleration (30 G approx.) in X, Y and Z directions for three times each | | | | | | | |
| Sensing range variation (Note 2) | | | Within ±10 % fluctuation of sensing range at +23 °C +73 °F and rated voltage in the range of allowable temperature and supply voltage | | | | | | | |
| Material | | | Enclosure: Brass (Nickel plated), Sensing part: PPS | | | | | | | |
| Cable (except for M12 plug-in connector type) | | | 0.44 mm ² [0.15 mm ² for GX-M(L)8□-U] 2-core cabtyre cable, 2 m 6.56 ft long | | | | | | | |
| Cable extension | | | Extension up to total 10 m 32.80 ft is possible with 0.34 mm ² , or more, cable. | | | | | | | |
| Net weight (Note 6) | 2 m cable length type | | 40 g approx. | 70 g approx. | 90 g approx. | 150 g approx. | 40 g approx. | 70 g approx. | 90 g approx. | 150 g approx. |
| | M12 pigtailed(-J type) / M12 plug-in connector type | | 20 g approx. | 20 g approx. | 45 g approx. | 110 g approx. | 20 g approx. | 20 g approx. | 45 g approx. | 110 g approx. |
| Accessories | | | Nut: 2 pcs. | | | | | | | |

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C **+73.4 °F**.

2) It is the value in state where the circumference of a detection side has a metal object.

3) The maximum operation distance stands for the maximum distance for which the sensor can detect the standard sensing object.

The stable sensing range stands for the sensing range for which the sensor can stably detect the standard sensing object even if there is an ambient temperature drift and/or supply voltage fluctuation.

4) It is the leakage current when the output is in the OFF state.

5) When the cable is extended, the residual voltage becomes larger.

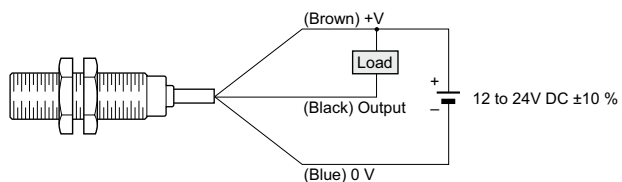
6) The weight includes the weight of two nuts.

WIRING DIAGRAMS

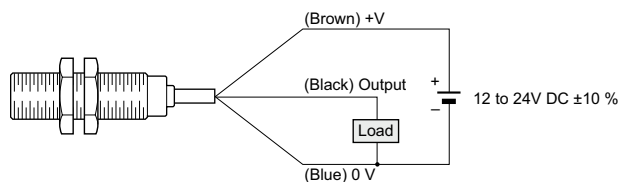
DC 3-wire type

Wiring diagram

NPN output type



PNP output type



Connector pin position

M12 connector



• Normally Open

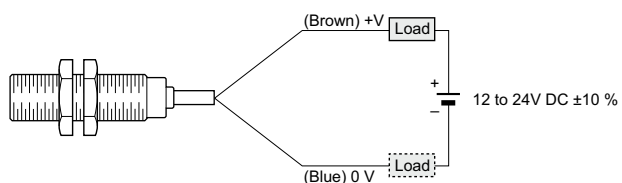
- 1 : +V
- 2 : Not connected
- 3 : 0 V
- 4 : Output

• Normally Closed

- 1 : +V
- 2 : Output
- 3 : 0 V
- 4 : Not connected

DC 2-wire type

Wiring diagram



Connector pin position

M12 connector



• Normally Open

(except for GX-M8□-U-J and GX-ML8□-U-J)

- 1 : Not connected
- 2 : Not connected
- 3 : +V
- 4 : 0 V

• Normally Open

(GX-M8□-U-J and GX-ML8□-U-J only)

- 1 : +V
- 2 : Not connected
- 3 : Not connected
- 4 : 0 V

• Normally Closed

- 1 : +V
- 2 : 0 V
- 3 : Not connected
- 4 : Not connected

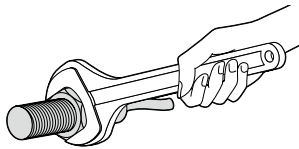
PRECAUTIONS FOR PROPER USE



- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

Mounting

- The tightening torque should be under the value given below.



| Model No. | Sensor size | Tightening torque | |
|----------------------|-------------|-------------------|------------------|
| | | Sensor | Connector (Note) |
| GX-M□ | M8 | 5 N·m | 2 N·m |
| | M12 | 6 N·m | 2 N·m |
| | M18 | 15 N·m | 2 N·m |
| | M30 | 40 N·m | 2 N·m |
| GX-M(L)8□-U-J | M8 | 5 N·m | 1.5 N·m |

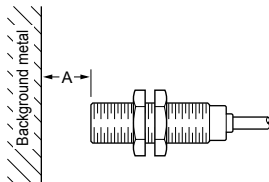
Note: Connector is equipped with -Z type or -J type.

Distance from surrounding metal

- As metal around the sensor may affect the sensing performance, pay attention to the following points.

Influence of surrounding metal

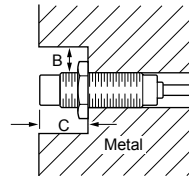
- The surrounding metal will affect the sensing performance. Keep the minimum distance specified in the table below.



| Type | A (mm in) | | | |
|-----------------------------|-------------|------------|------------|------------|
| | M8 | M12 | M18 | M30 |
| DC 3-wire shielded type | 3 0.12 | 4 0.16 | 10 0.39 | 20 0.79 |
| DC 3-wire non-shielded type | - | 21 0.83 | 36 1.42 | 66 2.60 |
| DC 2-wire standard type | 4.5 0.18 | 6 0.23 | 15 0.59 | 30 1.18 |
| DC 2-wire long range type | 8 0.32 | 12 0.47 | 25 0.98 | 45 1.77 |

Embedding of the sensor in metal

- Sensing range may decrease if the sensor is completely embedded in metal. Especially for the non-shielded type, keep the minimum distance specified in the right table.



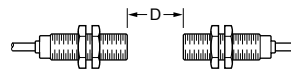
Note: With the non-shielded type, the sensing range may vary depending on the position of the nuts.

| Sensor size | B (mm in) | C (mm in) |
|-------------|------------|------------|
| M12 | 12 0.47 | 12 0.47 |
| M18 | 18 0.71 | 18 0.71 |
| M30 | 30 1.18 | 30 1.18 |

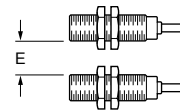
Mutual interference

- When two or more sensors are installed in parallel or face to face, keep the minimum separation distance specified below to avoid mutual interference.

Face to face mounting



Parallel mounting



| Type | D (mm in) | | | | E (mm in) | | | |
|-----------------------------|------------|------------|-------------|--------------|-----------|------------|------------|-------------|
| | M8 | M12 | M18 | M30 | M8 | M12 | M18 | M30 |
| DC 3-wire shielded type | 18 0.71 | 24 0.94 | 60 2.36 | 120 4.72 | 3 0.12 | 4 0.16 | 10 0.39 | 20 0.77 |
| DC 3-wire non-shielded type | - | 84 3.30 | 144 5.67 | 264 10.39 | - | 48 1.89 | 72 2.83 | 120 4.72 |
| DC 2-wire standard type | 18 0.71 | 24 0.94 | 60 2.36 | 120 4.72 | 3 0.12 | 4 0.16 | 10 0.39 | 20 0.77 |
| DC 2-wire long range type | 30 1.18 | 50 1.97 | 100 3.93 | 180 7.09 | 5 0.20 | 8 0.32 | 16 0.63 | 30 1.18 |

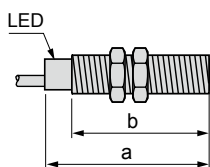
Wiring

- Make sure that the power supply is off while wiring.
- Verify that the supply voltage variation is within the rating.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.) terminal of the power supply is connected to an actual ground.
- Ensure that an isolation transformer is utilized for the DC power supply. If an autotransformer is utilized, the main body or power supply may be damaged.
- If the used power supply generates a surge, connect a surge absorber to the power supply to absorb the surge.
- In case noise generating equipment (switching regulator, inverter motor, etc.) is used in the vicinity of this product, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.
- Damage or burnout may result in case of short circuit of load or miswiring.
- Make a cable length as short as possible to lessen noise pickup.

Others

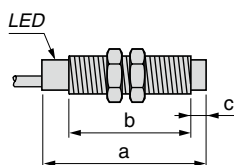
- Our products have been developed / produced for industrial use only.
- Avoid using a product where there is excessive vapor, dust or corrosive gas, or in a place where it could be exposed directly to water or chemicals.
- Take care that the sensor does not come in direct contact with water, oil, grease or organic solvents, such as, thinner, etc.
- Do not use in an environment containing inflammable or explosive gases.
- Never disassemble or modify the product.

DIMENSIONS (Unit: mm in)

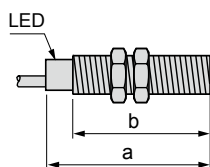


DC 3-wire type

| Sensors | | 2 m cable length type (mm in) | | M12 plug-in connector type (mm in) | |
|---------------|---------|-------------------------------|---------|------------------------------------|---------|
| Shielded type | | a | b | a | b |
| M8 | GX-M8□ | 33 1.30 | 25 0.98 | 45 1.77 | 24 0.94 |
| M12 | GX-M12□ | 35 1.38 | 25 0.98 | 50 1.97 | 30 1.18 |
| M18 | GX-M18□ | 39 1.54 | 28 1.10 | 50 1.97 | 28 1.10 |
| M30 | GX-M30□ | 43 1.69 | 32 1.26 | 55 2.17 | 32 1.26 |



| Sensors | | 2 m cable length type (mm in) | | | M12 plug-in connector type (mm in) | | |
|-------------------|----------|-------------------------------|---------|---------|------------------------------------|---------|---------|
| Non-shielded type | | a | b | c | a | b | c |
| M12 | GX-MK12□ | 55 2.17 | 42 1.65 | 5 0.20 | 66 2.60 | 42 1.65 | 5 0.20 |
| M18 | GX-MK18□ | 60 2.36 | 44 1.73 | 8 0.32 | 72 2.83 | 44 1.73 | 8 0.32 |
| M30 | GX-MK30□ | 63 2.48 | 41 1.61 | 13 0.51 | 74 2.91 | 41 1.61 | 13 0.51 |



DC 2-wire type

| Sensors | | 2 m cable length type (mm in) | | M12 plug-in connector type (mm in) (M8 size: M12 pigtailed type) | |
|--------------------------------|-------------------|-------------------------------|---------|---|---------|
| Standard type, Long range type | | a | b | a | b |
| M8 | GX-M(L)8□-U (-J) | 33 1.30 | 25 0.98 | — | 24 0.94 |
| M12 | GX-M(L)12□-U (-Z) | 35 1.38 | 25 0.98 | 50 1.97 | 30 1.18 |
| M18 | GX-M(L)18□-U (-Z) | 39 1.54 | 28 1.10 | 50 1.97 | 28 1.10 |
| M30 | GX-M(L)30□-U (-Z) | 43 1.69 | 32 1.26 | 55 2.17 | 32 1.26 |

Disclaimer

The applications described in the catalog are all intended for examples only.

The purchase of our products described in the catalog shall not be regarded as granting of a license to use our products in the described applications.

We do NOT warrant that we have obtained some intellectual properties, such as patent rights, with respect to such applications, or that the described applications may not infringe any intellectual property rights, such as patent rights, of a third party.

Please contact

Panasonic Electric Works SUNX Co., Ltd.

2431-1 Ushiyama-cho, Kasugai-shi, Aichi, 486-0901, Japan

■Telephone: +81-568-33-7211 ■Facsimile: +81-568-33-2631

Global Sales & Marketing Division

■Telephone: +81-568-33-7861 ■Facsimile: +81-568-33-8591

panasonic-electric-works.net/sunx

The Panasonic logo, consisting of the word "Panasonic" in a bold, blue, sans-serif font, with a registered trademark symbol (®) to the upper right of the "c".

All Rights Reserved ©Panasonic Electric Works SUNX Co., Ltd. 2011