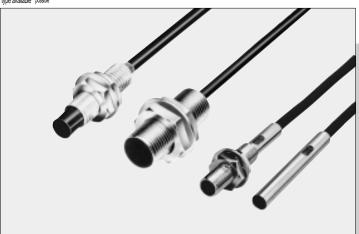
# GX SERIES

# Compact Inductive Proximity Sensor Amplifier Built-in





High functionality together with robust housing and flexible cable





#### **Miniature**

**GX-3S** is an amplifier built-in inductive proximity sensor having a diameter of just  $\phi$  3.8 mm  $\phi$  0.150 in.



# Various applications

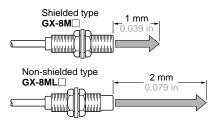
The **GX** series can be used for various applications because of its wide supply voltage range, open-collector transistor output, sufficient output capacity and IP67 protection.

# **Operation indicator**

All models of the **GX** series are equipped with an operation indicator for easy adjustment and maintenance.

# Long sensing range

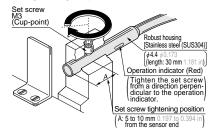
The non-shielded type (GX-8ML) has twice the sensing range of the shielded type (GX-8M), although having the same size. Hence, it allows margin against sensing distance variations.



# **Robust housing**

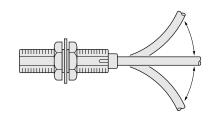
The **GX-4S** uses a robust stainless steel housing. The tightening torque can be  $0.58~N\cdot m$  or less.

Tightening torque: 0.58 N⋅m or less



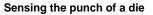
# Ten times greater bending durability

The bending durability of the cable to repeated bending has been increased tenfold by using special alloy cores for the cable.

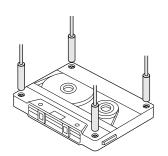


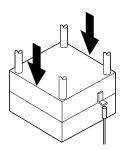
# **APPLICATIONS**

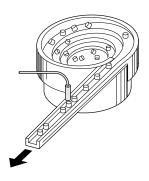
# Sensing screws on cassette



# **Counting parts**







# **ORDER GUIDE**

Ту	φe	Appearance (mm in)	Sensing range (Note)	Model No.	Supply voltage	Output	Output operation
		φ3.8 φ0.150	Maximum operation distance 0.8 mm 0.031 in	GX-3S			Normally open
		30 1.181	(0 to 0.6 mm 0 to 0.024 in) Stable sensing range	GX-3SB	12 to 24 V DC	NPN open-collector transistor	Normally closed
	Non-threaded type	Robust housing type $\phi$ 4.4 $\phi$ 0.173	<b>0.8 mm</b> 0.031 in	GX-4S	± 10 %		Normally open
	Non-threa	30	(0 to 0.6 mm 0 to 0.024 in)	GX-4SB			Normally closed
Shielded type		\$5.4 \$0.213 30 1.181	1 mm 0.039 in (0 to 0.8 mm 0 to 0.031 in)	GX-5S	10 to 30 V DC 12 to 24 V DC ± 10 %		Normally open
Shielde				GX-5SB			Normally closed
		M5 30 1.181	0.8 mm 0.031 in (0 to 0.6 mm 0 to 0.024 in)	GX-5M			Normally open
				GX-5MB			Normally closed
	Threaded type	M8 30 1.181	1 mm 0.039 in	GX-8M			Normally open
	Thread		(0 to 0.8 mm 0 to 0.031 in)	GX-8MB	40.4 00.4 00		Normally closed
Ided type		M8 30 1.181	2 mm 0.079 in (0 to 1.6 mm 0 to 0.063 in)	GX-8ML	10 to 30 V DC		Normally open
Non-shielded type				GX-8MLB			Normally closed

Note: 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**

# Flexible cable type and 5 m 16.404 ft cable length type

Flexible cable type and 5 m 16.404 ft cable length type (standard: 3 m 9.843 ft) are also available.

#### · Table of model Nos.

Туре		Standard	Flexible cable type	5 m 16.404 ft cable length type	Flexible cable & 5 m 16.404 ft cable length type
		GX-3S	GX-3S-R	GX-3S-C5	GX-3S-R-C5
		GX-3SB	GX-3SB-R	GX-3SB-C5	GX-3SB-R-C5
	Non-threaded type	GX-4S	GX-4S-R	GX-4S-C5	GX-4S-R-C5
		GX-4SB	GX-4SB-R		
Chialded to ma		GX-5S	GX-5S-R	GX-5S-C5	GX-5S-R-C5
Shielded type		GX-5SB	GX-5SB-R	GX-5SB-C5	
		GX-5M	GX-5M-R	GX-5M-C5	GX-5M-R-C5
		GX-5MB	GX-5MB-R	GX-5MB-C5	
	There are dead to make	GX-8M	GX-8M-R	GX-8M-C5	GX-8M-R-C5
	Threaded type	GX-8MB	GX-8MB-R	GX-8MB-C5	GX-8MB-R-C5
Non-shielded		GX-8ML		GX-8ML-C5	
type		GX-8MLB		GX-8MLB-C5	

#### **Accessories**

- MS-SS3 (Sensor mounting bracket for GX-3S type)
- MS-SS5 (Sensor mounting bracket for GX-5S type)





By using the C bracket, the applicable tightening force can be doubled.

# **SPECIFICATIONS**

#### Non-threaded type

							Shielde	ed type					
	Туре			Flexibl	e cable			Flexible	e cable			Flexibl	e cable
Item	Model No.	GX-3S	GX-3SB	GX-3S-R	GX-3SB-R	GX-4S	GX-4SB	GX-4S-R	GX-4SB-R	GX-5S	GX-5SB	GX-5S-R	GX-5SB-R
Max. operation	on distance (Note 1)			0	.8 mm 0.03	1 in ±15	%			1 mm 0.039 in ±15 %			
Stable sens	ng range (Note 1)			0	to 0.6 mm	0 to 0.024	in				0 to 0.8 mr	<b>n</b> 0 to 0.03	1 in
Standard se	nsing object		Iron s	sheet 5×5	5×t1mm	0.197×0.	.197×t 0.0	39 in		Iron sheet 6	×6×t1 mm	0.236 × 0.23	6×t 0.039 in
Hysteresis						15 %	or less of o	peration di	stance				
Repeatabilit	у			2	20 μm 0.78	7 mil or les	ss				8 μm 0.31	5 mil or les	ss
Supply volta	ge		12	to 24 V D	C ± 10 %	Ripple P-F	2 10 % or le	ess		10 to 30	V DC Rip	ple P-P 10	% or less
Current con	sumption						15 mA	or less					
Output			• Maxi • Appli	ied voltage	transistor current: 50 e: 30 V DC ge: 0.4 V or	or less (be			١	NPN open-collector transistor  • Maximum sink current: 200 mA (Note 2)  • Applied voltage: 30 V DC or less  (between output and 0 V)  • Residual voltage: 1.5 V or less (at 200 mA sink current)  0.4 V or less (at 50 mA sink current)			
Utilizati	on category						DC-12 d	or DC-13					
Output	operation	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed
Short-c	rcuit protection									Incorporated			
Max. respor	se frequency	1 kHz					1.5 kHz						
Operation in	dicator	Red LED (lights up when the output is ON)											
Pollutio	n degree					3	(Industrial	environme	nt)				
Protect	on	IP67 (IEC)											
Ambien	t temperature			— 25 t	o + 70 °C	- 13 to $+$	158 °F, <b>Sto</b> i	age: - 25	to + 80 °C	— 13 to -	⊢ 176 °F		
Ambien	t humidity			35 to 95	% RH, Sto	rage: 35 to	95 % RH			35 to 85	% RH, Sto	orage: 35 to	95 % RH
EMC		EN 50081-2, EN 50082-2, EN 60947-5-2											
Voltage	withstandability		500 V AC for one min. between all supply terminals connected together and enclosure										
Ambien EMC Voltage Insulati	on resistance	5 MΩ, or more, with 250 V DC megger between all supply terminals connected together and enclosure 50 MΩ, or more, with 500 V DC meg supply terminals connected together											
Vibratio	n resistance	10 to 55 Hz frequency, 1.5 mm 0.059 in amplitude in X, Y and Z directions for two hours each						each					
Shock I	esistance	200 m/s	200 m/s² acceleration (20 G approx.) in X, Y and Z directions for ten times each					300 m/s² acceleration (30 G approx.) in X, Y and Z directions for ten times each					
Sensing range	Temperature characteristics		bient tempe g range at		ge — 25 to ⊢ 68 °F	+70 °C −	- 13 to + 15	58 °F: Withi	n ± 20 %	Over ambient temperature range $-25$ to $+70$ °C $-13$ to $+158$ °F: Within $\pm$ 15 % of sensing range at $+20$ °C $+68$ °F			
variation	Voltage characteristics		Within	±2% for:	± 10 % fluc	tuation of	the supply	voltage			2.5 % for a	± 15 % fluo	ctuation of
Material			Enclosure: Stainless steel (SUS304), Resin part: TPX						osure: Bras n part: ABS		lated)		
Cable		heat and co	3-core oil, old resistant able, 3 m	oil and he	core flexible, at resistant able, 3 m g	heat and o	3-core oil, old resistant able, 3 m	oil and he	core flexible, at resistant able, 3 m	heat and o	3-core oil, old resistant cable, 3 m	oil and he	core flexible, at resistant able, 3 m
Cable exten	sion			Extens	ion up to to	tal 100 m	328.084 ft <b>i</b>	s possible	with 0.3 mr	n <sup>2</sup> , or more	e, cable.		
Weight					30 g a	pprox.					55 g	approx.	
Accessories			Sensor mo <b>2</b> (C bracke		cket): 1 pc.					MS-SS5	(Sensor mo	unting brac	cket): 1 pc.
		•											

Notes: 1) 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.

2) The maximum sink current varies depending on the ambient temperature. Refer to 'I/O CIRCUIT AND WIRING DIAGRAMS' (p.749) for details.



# **SPECIFICATIONS**

# Threaded type

		<u> </u>				Shield	ed type					
		Туре			Flexible	e cable			Flexible	e cable	Non-shie	elded type
Iter	n \	Model No.	GX-5M	GX-5MB	GX-5M-R	GX-5MB-R	GX-8M	GX-8MB	GX-8M-R	GX-8MB-R	GX-8ML	GX-8MLB
Max	. operation	on distance (Note 1)		0.8 mm 0.03	31 in ± 15 %			1 mm 0.03	9 in ± 15 %		2 mm 0.079 in ± 15 %	
Stal	ole sensi	ng range (Note 1)		0 to 0.6 mm	0 to 0.024 in			0 to 0.8 mm	0 to 0.031 in		0 to 1.6 mm	0 to 0.063 in
Sta	ndard se	nsing object	Iron sheet 5	$\times$ 5 $\times$ t1 mm	0.197×0.197	7×t 0.039 in	Iron sheet 8	$\times$ 8 $\times$ t1 mm	0.315×0.315	5×t 0.039 in	Iron sheet 12 X 12 X t 1 m	<b>m</b> 0.472 × 0.472 × t 0.039 in
Hys	teresis		15 %	% or less of o	peration dista	ance			10 % or less	of operation	distance	
Rep	eatability	/		<b>20 μm</b> 0.78	7 mil or less			8 μm 0.315	mil or less		<b>40</b> μm 1.57	75 mil or less
Sup	ply volta	ge	12 to 24 V	DC ± 10 %	Ripple P-P 1	0 % or less		10 to 3	0 V DC Ripp	ple P-P 10 %	or less	
Cur	rent cons	sumption					15 mA	or less				
Out	put		Maximu     Applied v	oltage: 30 V DC al voltage: 0.4	ransistor urrent: 50 mA  / DC or less (between output and 0V)  is 0.4 V or less  (at 50 mA sink current)  NPN open-collector transistor  • Maximum sink current: 200 mA (Note 2)  • Applied voltage: 30 V DC or less (between output and 0V)  • Residual voltage: 1.5 V or less (at 200 mA (Note 2))					en output ar nA sink curre	ent)	
	Utilizatio	on category					DC-12 c	or DC-13				
	Output	operation	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed
	Short-ci	rcuit protection							Incorp	orated		
Max	c. respon	se frequency				1 k	Hz				500	) Hz
Оре	eration in	dicator	Red LED (lights up when the output is ON)									
	Pollution	n degree	3 (Industrial environment)									
	Protecti	on	IP67 (IEC)									
oce	Ambien	t temperature			-25  to + 70	°C − 13 to -	+ 158 °F, <b>Sto</b>	rage: - 25 to	+80°C -1	3 to + 176 °F	=	
istar	Ambien	t humidity	35 to 9	5 % RH, Stor	rage: 35 to 95	5 % RH		35 to 8	5 % RH, Sto	rage: 35 to 95	5 % RH	
al res	EMC				EN 50081-2, EN 50082-2, EN 60947-5-2							
nenta	Voltage	withstandability		500	V AC for one min. between all supply terminals connected together and enclosure					sure		
Environmental resistance	Insulation	on resistance		$M\Omega$ , or more, with 250 V DC megger between all supply terminals connected together and enclosure 50 M $\Omega$ , or more, with 500 V DC megger between all supply terminals connected together and enclosure							ipply	
Ш	Vibratio	n resistance		10 to 55	Hz frequenc	uency, 1.5 mm 0.059 in amplitude in X, Y and Z directions for two hours each						
	Shock r	esistance	200 m/s² acceleration (20 G approx.) in X, Y and Z directions for ten times each			300 m/s² acceleration (30 G approx.) in X, Y and Z directions for ten times each				300 m/s² acceleration (30 G approx.) in X, Y and Z directions for three times each		
	sing range	Temperature characteristics			- 25 to + 70 °C - t + 20 °C + 68 °I		Over ambient temperature range $-$ 25 to $+$ 70 °C $-$ 13 to $+$ 158 °F: Within $^{+15}_{-10}$ % of sensing range at $+$ 20 °C $+$ 68 °F					+ 158 °F:
varia	tion	Voltage characteristics	Within ± 2 % for ± 10 % fluctuation of the supply voltage			Within $\pm$ 2.5 % for $\pm$ 15 % fluctuation of the supply voltage					tage	
Mat	erial			closure: Bras sin part: TPX	ss (Nickel pla	ted)	Enclosure: Brass (Nickel plated) Resin part: ABS					
Cable			core oil, heat stant cabtyre 843 ft long	oil and hea	core flexible, at resistant able, 3 m	heat and cold resistant oil and heat resistant		at resistant able, 3 m	heat and c	3-core, oil, old resistant able, 3 m		
Cab	ole extens	sion	Extension up to total 100 m 328.084 ft is			t is possible with 0.3 mm², or more, cable.  Extension up to to 328.084 ft is pos 0.14 mm², or more				possible with		
Wei	ght (Note	e 3)		30 g a	ipprox.		60 g approx.					
Acc	essories		Nut: 2 pcs. Toothed lock	washer: 1 pc.	Nut: 2 pcs. Toothed lock w	vasher: 2 pcs.	Nut: 2 pcs. Toothed lock	washer: 1 pc.	Nut: 2 pcs. Toothed lock v	vasher: 2 pcs.	Nut: 2 pcs. Toothed lock	washer: 1 pc.

Notes: 1) 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.

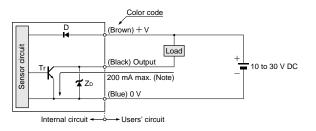
<sup>2)</sup> The maximum sink current varies depending on the ambient temperature. Refer to 'I/O CIRCUIT AND WIRING DIAGRAMS' (p.749) for details.

3) The given weight of the threaded type includes the weight of two nuts and one toothed lock washer.

# I/O CIRCUIT AND WIRING DIAGRAMS

# GX-5S□ GX-8M□ GX-8ML□

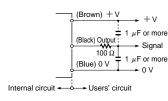
# I/O circuit diagram



Brown Load Black 10 to 30 V DC Blue

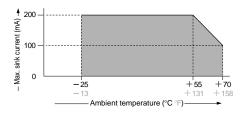
Symbols ... D : Reverse supply polarity protection diode Z<sub>D</sub>: Surge absorption zener diode Tr : NPN output transistor

• If a capacitor of 1  $\mu F$  or more is connected between 0 V and output or between  $+\,\mathrm{V}$  and output, connect a 100  $\Omega$  resistor in series as shown below.



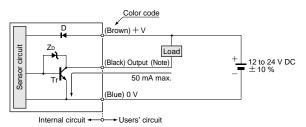
Without the resistor, the shortcircuit protection is activated by the charge or discharge current of the capacitor, so that it results in delaying the response whenever the sensor switches. The connected resistor solves this problem.

Note: The maximum sink current varies depending on the ambient



# GX-3S GX-5M GX-4S

#### I/O circuit diagram

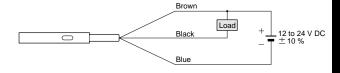


Note: GX-3S□, GX-4S□ and GX-5M□ do not incorporate a short-circuit protection at the output. Do not connect them directly to a power supply or a capacitive load.

Symbols ... D : Reverse supply polarity protection diode Zo: Surge absorption zener diode Tr : NPN output transistor

#### Wiring diagram

Wiring diagram

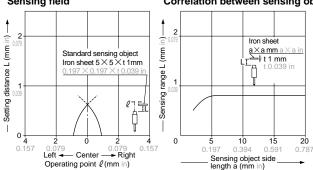


# SENSING CHARACTERISTICS (TYPICAL)

#### GX-3S GX-4S GX-5M□

# Sensing field

# Correlation between sensing object size and sensing range

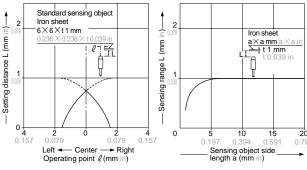


As the sensing object size becomes smaller than the standard size (iron sheet  $5 \times 5 \times t$  1 mm  $0.197 \times 0.197 \times t$  0.039 in), the sensing range shortens as shown in the left figure.

### GX-5S□

#### Sensing field

#### Correlation between sensing object size and sensing range

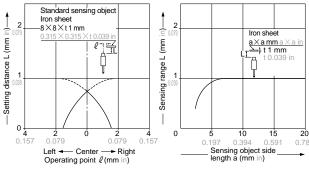


As the sensing object size becomes smaller than the standard size (iron sheet  $6 \times 6 \times t$  1 mm  $0.236 \times 0.236 \times t$  0.039 in), the sensing range shortens as shown in the left figure.

# GX-8M□

# Sensing field

#### Correlation between sensing object size and sensing range

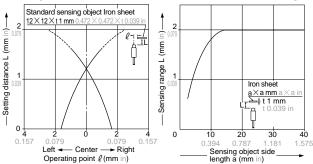


As the sensing object size becomes smaller than the standard size (iron sheet  $8 \times 8 \times t$  1 mm  $0.315 \times 0.315 \times t$  0.039 in), the sensing range shortens as shown in the left figure.

# GX-8ML□

#### Sensing field

#### Correlation between sensing object size and sensing range



As the sensing object size becomes smaller than the standard size (iron sheet  $12 \times 12 \times t$  1 mm  $0.472 \times 0.472 \times t$  0.039 in), the sensing range shortens as shown in the left figure.

#### PRECAUTIONS FOR PROPER USE



This product is not a safety sensor. Its use is not intended or designed to protect life and prevent body injury or property damage from dangerous parts of machinery. It is a normal object detection sensor.

#### Mounting

• The tightening torque should be as given below.

#### Mounting with set screw

#### <Shielded threaded type>

· Tighten the set screw on the flat surface of the sensor without applying excessive force. Make sure to use a set screw with a cup-point end.



Note: To fasten GX-5M□, use a M3 or less set screw.

Model No.	Set screw tightening position A (mm in)	Tightening torque		
GX-5M□	<b>5 to 10</b> 0.197 to 0.394	0.29 N·m		
GX-8M□	8 to 22 0.315 to 0.866	0.29 N·m		

#### <Non-threaded type and non-shielded threaded type>

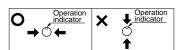


Model No.		B (mm in)	C (mm in)	Tightening torque
GX-3S□		a		0.29 N·m
	When using the C bracket	5 to 10 0.197 to 0.394	3 0.118	0.58 N·m
GX-4S□		5 to 10 0.197 to 0.394	<b>3</b> 0.118	0.58 N·m
GX-5S□		8 to 20 0.315 to 0.787	<b>5</b> 0.197	0.29 N·m
GX-8ML□		13 to 22 0.517 to 0.866	<b>10</b> 0.394	0.29 N·m

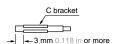
Note: The protrusion should be kept C (mm in) or more to avoid reduction of sensing range.

• To fasten GX-3S□ and GX-4S□, use a M3 or less set screw and tighten it from a direction perpendicular to the operation indicator.





· When using the C bracket, place it on the sensor at a distance of 3 mm 0.118 in or more from the sensor end.



• To fasten the non-shielded threaded type, tighten the set screw on the flat surface of the sensor.

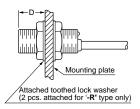
# Mounting with nut

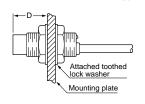
· Note that the maximum tightening torque differs according to the location of the nuts.

#### <Shielded threaded type>

#### <Non-shielded threaded type>

Refer to p.1152~ for general precautions.





Model No.	D (mm in)	Tightening torque
CV EM	2 to 3 0.079 to 0.118	0.49 N·m
GX-5M□	3 0.118 or more	1.47 N·m
CV OM	3 to 11 0.118 to 0.433	1.47 N·m
GX-8M□	11 0.433 or more	3.43 N·m
CV OMI 🗆	9 to 11 0.345 to 0.433	0.98 N·m
GX-8ML□	11 0.433 or more	3.43 N·m

Note: Mount such that the nuts do not protrude from the threaded portion.



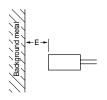
#### PRECAUTIONS FOR PROPER USE

# Distance from surrounding metal

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

#### Influence of surrounding metal

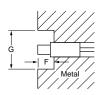
 The surrounding metal will affect the sensing performance. Keep the minimum distance specified in the table below.



Model No.	E (mm in)
GX-3S□	<b>3</b> 0.118
GX-4S□	<b>3</b> 0.118
GX-5S□	<b>4</b> 0.157
GX-5M□	<b>3</b> 0.118
GX-8M□	<b>4</b> 0.157
GX-8ML□	8 0.315

#### Embedding of the sensor in metal

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

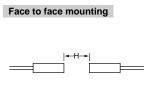


Model No.	F (mm in)	G (mm in)
GX-3S□	<b>3</b> 0.118	<b>φ12</b> φ0.472
GX-4S□	<b>3</b> 0.118	<b>φ12</b> φ0.472
GX-5S□	<b>5</b> 0.197	φ15.4 φ0.606
GX-8ML□	10 0.394	<b>¢30</b> <i>¢</i> 1.181

#### **Mutual interference**

Parallel mounting

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



Model No.	H (mm in)	J (mm in)
GX-3S□	<b>16</b> 0.630	<b>16</b> 0.630
GX-4S□	<b>16</b> 0.630	<b>16</b> 0.630
GX-5S□	20 0.787	<b>15</b> 0.591
GX-5M□	10 0.394	10 0.394
GX-8M□	20 0.787	<b>15</b> 0.591
GX-8ML□	<b>50</b> 1.969	30 1.181

# Sensing range

 The sensing range is specified for the standard sensing object. With a non-ferrous metal, the sensing range is obtained by multiplying with the correction coefficient specified below.

Refer to p.1152~ for general precautions.

#### Correction coefficient

Model No. Metal	GX-3S□ GX-4S□	GX-5M□	GX-5S□ GX-8M□ GX-8ML□
Iron	1	1	1
Stainless steel (SUS304)	0.65 approx.	0.83 approx.	0.70 approx.
Brass	0.36 approx.	0.61 approx.	0.40 approx.
Aluminum	0.30 approx.	0.58 approx.	0.35 approx.

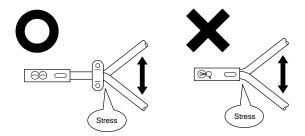
Note: The sensing range also changes if the sensing object is plated.

#### **Others**

- Do not use during the initial transient time (10 ms) after the power supply is switched on.
- When the sensor is mounted on a moving base, stress should not be applied to the sensor cable joint.

  Sensors attached with flexible cable are also available. They are identified by the suffix '-R' at the end of the model No.

  They are identified by the suffix '-R' at the end of the model No.



• GX-3S□, GX-4S□ and GX-5M□ do not incorporate a short-circuit protection at the output. Do not connect them directly to a power supply or a capacitive load.

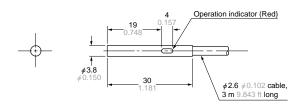
DIMENSIONS (Unit: mm in) The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.co.jp/

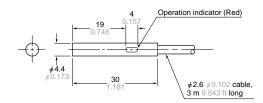
GX-3S□

Sensor

GX-4S□

Sensor

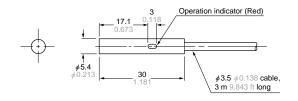


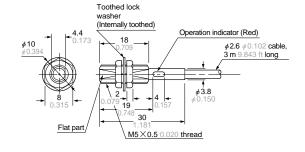


GX-5S

Sensor

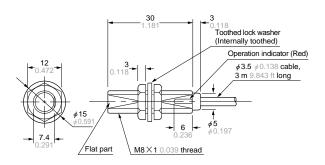
GX-5M□ Sensor



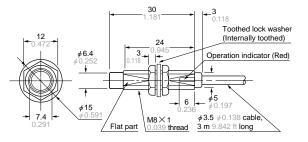


GX-8M□

Sensor







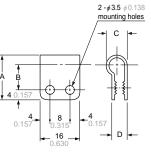
MS-SS3-2

C bracket for **GX-3S**□ (Accessory)

Note: By using the C bracket, the applicable tightening force can be doubled.

MS-SS3	
MS-SS5	

Sensor mounting bracket for **GX-3S**□ (Accessory) Sensor mounting bracket for **GX-5S**□ (Accessory)



MS-SS3	MS-SS5
<b>16</b> 0.630	18 0.709
9 0.354	10 0.394
6.3 0.248	<b>8.3</b> 0.327
<b>4.9</b> 0.193	6.1 0.240
GX-3S□	GX-5S□
	16 0.630 9 0.354 6.3 0.248 4.9 0.193

Material: Nylon 66