Cylindrical Compact Inductive Proximity Sensor Amplifier Built-in **GX SERIES**



866

GX-M

GX-U/GX-FU/ GX-N GX



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.

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ORDER GUIDE

Flexible cable type

Flexible cable type is also available for shielded type. When ordering this type, suffix "-**R**" to the model No. (e.g.) Flexible cable type of **GX-3S** is "**GX-3S-R**".

5 m 16.404 ft cable length type

5 m 16.404 ft cable length type (standard: 3 m 9.843 ft) is also available. (excluding **GX-4SB**) When ordering this type, suffix "-**C5**" to the model No. (e.g.) 5 m 16.404 ft cable length type of **GX-3S** is "**GX-3S-C5**".

Refer to table below for 5 m 16.404 ft cable length type of flexible cable type sensor.

Table of model Nos.

Accessories

- MS-SS3 (Sensor mounting bracket for GX-3S type)
- MS-SS3-2 (C bracket for GX-3S type)
- MS-SS5 (Sensor mounting bracket for GX-5S type)

• MS-SS3 • MS-SS5



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





GX-F/H
GXL
GL
GX-M
GX-U/GX-FU/ GX-N
GX

SPECIFICATIONS

Non-threaded type

Туре		Time						Shield	ed type					
				Flexibl	e cable			Flexibl	e cable			Flexibl	e cable	
Iten	n	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	. opera	tion distance (Note 2)			(0.8 mm 0.0	<mark>31 in</mark> ±15 %	%			1 mm 0.039 in ±15 %			
Stat	ole sen	sing range (Note 2)			0	to 0.6 mm	0 to 0.024	in			0	to 0.8 mm	0 to 0.031	in
Star	ndard s	ensing object		Iron sheet 5 × 5 × t 1 mm 0.197 × 0.197 × t 0.039 in Iron sheet 6 × 6 × t 1 mm 0.236 × 0.236 × t 0.039 in							6 × t 0.039 in			
Hys	teresis					15 % or les	ss of opera	tion distand	ce (with sta	indard sens	sing object)		
Rep	eatabil	lity			2	20 µm <mark>0.78</mark>	7 mil or les	s				8 µm <mark>0.31</mark> 5	mil or les	S
Sup	ply vol	tage		12	2 to 24 V D	C ±10 %	Ripple P-F	9 10 % or le	SS		10 to 30	V DC Rip	ple P-P 10	% or less
Cur	rent co	nsumption						15 mA	or less					
Output				 NPN open-collector transistor Maximum sink current: 50 mA Applied voltage: 30 V DC or less (between output and 0 V) Residual voltage: 0.4 V or less (at 50 mA sink current) NPN open-collector transistor Maximum sink current: 200 mA (Note 3) Applied voltage: 30 V DC or less (between output and 0 V) Residual voltage: 0.4 V or less (at 50 mA sink current) Residual voltage: 1.5 V or less (at 200 mA sink current) 						mA (Note 3) or less ut and 0 V) less ink current) ik current)				
	Utiliza	ation category						DC-12 c	or DC-13					
	Outpu	ut 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	-circuit protection									Incorporated			
Мах	. respo	onse frequency	1 kHz 1.5 kHz											
Ope	ration	indicator	Red LED (lights up when the output is ON)											
	Pollut	ion degree	3 (Industrial environment)											
⁰	Prote	ction	IP67 (IEC)											
tance	Ambie	ent temperature			-2	5 to + 70 °0	0 °C -13 to +158 °F, Storage: -25 to +80 °C -13 to +176 °F							
esist	Ambie	ent humidity	35 to 95 % RH, Storage: 35 to 95 % RH 35 to 85 % RH, Storage: 35 to 95 % R							95 % RH				
EMC						EN 60947-5-2								
nme	Volta	ge withstandability	500 V AC for one min. between all supply terminals connected together and enclosure											
Enviro	Insulation 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 megger between supply terminals connected together and enclosure								er between all nd enclosure					
	Vibration resistance 10 to 55 Hz frequency, 1.5 mm 0.059 in amplitude in X, Y and Z directions for two hours each													
Shock resistar		k resistance	200 m/	200 m/s ² acceleration (20 G approx.) in X, Y and Z directions for ten times each X,						300 m/s ² acceleration (30 G approx.) in X, Y and Z directions for ten times each				
Sen	sing	Temperature characteristics	Over ambient temperature range -25 to +70 °C -13 to +158 °F: Within ±20 % of sensing range at +20 °C +68 °F Over ambient temperature range -25 to +70 °C -13 to +158 °F: Within ±15 % of sensing range at +20 °C +68 °F						°C –13 to +20 °C +68 °F					
variation Voltage characteristics			Within ±2 % for ±10 % fluctuation of the supply voltage						Within ±2.5 % for ±15 % fluctuation of the supply voltage					
Material			Enclosure: Stainless steel (SUS304), Resin part: TPX Enclosure: Brass (Nickel plated Resin part: ABS					lated)						
Cable			0.08 mm ² 3- and cold res cable, 3 m 9	0.08 mm² 3-core oil, heat and cold resistant cabtyre cable, 3 m 9.843 ft long cable, 3 m 9.84						ore flexible, oil stant cabtyre 843 ft long				
Cab	le exte	nsion			Extens	ion up to to	tal 100 m	328.084 ft i	s possible	with 0.3 mr	n², or more	e, cable.		
Wei	ght				Ν	let weight:	30 g appro	X.			N	let weight:	55 g appro	X.
Accessories			MS-SS3 ((Sensor mo 2 (C bracke	unting brac	cket): 1 pc.					MS-SS5 (Sensor mo	unting brac	cket): 1 pc.

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

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.
 2) The maximum distance to the standard sensing object even if there is an ambient temperature drift and/or supply voltage fluctuation.

3) The maximum sink current varies depending on the ambient temperature. Refer to "I/O CIRCUIT AND WIRING DIAGRAMS (p.870)" for details.

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Selectior Guide

Amplifie separate

GX-F/H GXL GL GX-M GX-U/GX-FU/ GX-N

LASER SENSORS

SPECIFICATIONS

Threaded type

PHOTO- ELECTRIC							Shielde	ed type				Neg akia	
SENSORS	Гуре				Flexibl	e cable			Flexibl	e cable	Non-shie	ided type	
PHOTO- ELECTRIC SENSORS	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
AREA	Max. operation distance (Note 2)			0.8 mm 0.031 in ±15 %			1 mm 0.039 in ±15 %				2 mm 0.079 in ±15 %		
LIGHT	Stable sensing range (Note 2)			0 to 0.6 mm 0 to 0.024 in			0 to 0.8 mm 0 to 0.031 in			in	0 to 1.6 mm 0 to 0.063 in		
SAFETY COMPONENTS	Standard sensing object			Iron sheet 5	× 5 × t 1 mm	0.197 × 0.197	7 × t 0.039 in	.039 in Iron sheet 8 × 8 × t 1 mm 0.			0.315 × 0.315 × t 0.039 in Iron sheet 12 × 12 × t 1 mm 0.472 × 0.		
PRESSURE / FLOW SENSORS	Hysteresis			15 % ((with s	or less of o standard se	peration die nsing obje	stance ct)		10 % or les	ss of opera	tion distand	ce (with standard sens	sing object)
INDUCTIVE PROXIMITY	Repeatability			ty 20 μm 0.787 mil or less 8 μm 0.315 mil or less				40 µm 1.57	40 µm 1.575 mil or less				
PARTICULAR	Sup	ply vol	tage	12 to 24 V	DC ±10 %	Ripple P-P 1	0 % or less	s 10 to 30 V DC Ri				ple P-P 10 % or less	
SENSORS	Cur	rent co	nsumption					-	15 mA	or less			
SENSOR OPTIONS SIMPLE WIRE-SAVING UNITS WIRE-SAVING	Output		NPN op • Ma • Ap • Re	en-collecto iximum sinl plied voltag (betw sidual volta (at §	r transistor c current: 5 ge: 30 V DC een output gge: 0.4 V c 50 mA sink	60 mA C or less and 0V) or less current)		NPN open • Maxir • Applie • Resid	-collector t num sink c ed voltage: lual voltage	ransistor urrent: 200 30 V DC o e: 1.5 V or l 0.4 V or l	mA (Note 3) r less (between outpu ess (at 200 mA sink c ess (at 50 mA sink cu	t and 0 V) urrent) rrent)	
MEASURE-		Utiliza	ation category						DC-12 c	or DC-13			
MENT SENSORS STATIC FLECTRICITY		Outp	ut operation	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed	Normally open	Normally closed
PREVENTION DEVICES		Short	-circuit protection		·				1	1	Incorp	orated	I
LASER MARKERS	Max	lax. response frequency 1 kHz					500 Hz						
PL C	Ope	eration	indicator	Red LED (lights up when the output is ON)									
	Pollution degree			Pollution degree 3 (Industrial environment)									
MACHINE		Prote	ction						IP67	(IEC)			
ENERGY CONSUMPTION	Ambient temperature - 25 to +70 °C -13 to +158 °F, Storage: - 25 to +80 °C - 13 to +176 °F												
COMPONENTS	Ambient humidity			Ambient humidity 35 to 95 % RH, Storage: 35 to 95 % RH 35 to 85 % RH, Storage: 35 to 95 % RH									
FA COMPONENTS	alre	EMC		EN 60947-5-2									
MACHINE VISION	nent	Volta	ge withstandability		-	500 V AC for one min. between all supply terminals connected together and enclosure							
UV CURING	Inviron	Insula	ation resistance	5 MΩ, or mo supply termi	ore, with 250 Vinals connected	/ DC megger ed together ar	between all nd enclosure	all 50 MΩ, or more, with 500 V DC megger between all supply termin- together and enclosure					rminals connected
SYSTEMS	ш	Vibra	tion resistance		10	to 55 Hz fre	equency, 1.	.5 mm 0.05	<mark>i9 in</mark> amplit	ude in X, Y	and Z dire	ctions for two hours e	ach
		Shock resistance		200 m/s² X, Y and 2	acceleratio Z directions	n (20 G ap s for ten tim	prox.) in nes each	300 m/s ² X, Y and Z	acceleratio Z directions	n (30 G ap s for ten tim	prox.) in les each	300 m/s ² acceleration X, Y and Z directions	n (30 G approx.) in a for three times each
	Sen	Sensing characteristics		Over ambient +158 °F: With	temperature ra in ±20 % of ser	inge – 25 to +7 nsing range at	70 °C –13 to +20 °C +68 °F		Over amb Within +15 -10	ient tempe	rature rang ing range a	e –25 to +70 °C –13 t at +20 °C +68 °F	o +158 °F:
Selection Guide Amplifier Built-in	vari	riation Voltage characteristics		Within ±2 % for ±10 % fluctuation of the supply voltage			Within ± 2.5 % for ± 15 % fluctuation of the supply voltage				voltage		
Amplifier- separated	Material			Enclo Resir	osure: Bras n part: TPX	s (Nickel p	lated)	Enclosure: Brass (Nickel plated) Resin part: ABS					
GX-F/H GXL	Cable			0.08 mm ² 3-0 and cold resi cable, 3 m 9.	core oil, heat istant cabtyre .843 ft long	0.1 mm ² 3-cc and heat resi cable, 3 m 9.	ore flexible, oil istant cabtyre 843 ft long	0.14 mm ² 3-0 and cold resi cable, 3 m 9.	core oil, heat istant cabtyre .843 ft long	0.15 mm ² 3-c and heat resis cable, 3 m 9.8	ore flexible, oil stant cabtyre 343 ft long	0.14 mm ² 3-core, oil, resistant cabtyre cab	heat and cold le, 3 m 9.843 ft long
GL	Cab	ole exte	ension	Extens	ion up to to	tal 100 m 3	328.084 ft i	s possible	with 0.3 mr	m ² , or more	, cable.	Extension up to tota possible with 0.14 m	1 100 m 328.084 ft is m^2 , or more, cable.
GX-U/GX-FU/	Wei	ght (N	ote 4)	N	let weight:	30 g appro	х.			Ν	let weight:	60 g approx.	
GX-N GX	Acc	essorie	25	Nut: 2 pcs Toothed lock	s. washer: 1 pc.	Nut: 2 pcs Toothed lock	s. washer: 2 pcs.	Nut: 2 pcs Toothed lock	s. washer: 1 pc.	Nut: 2 pcs Toothed lock	s. washer: 2 pcs.	Nut: 2 pcs. Toothed lock	washer: 1 pc.

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

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.

3) The maximum sink current varies depending on the ambient temperature. Refer to "I/O CIRCUIT AND WIRING DIAGRAMS (p.870)" for details.

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

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I/O CIRCUIT AND WIRING DIAGRAMS



I/O circuit diagram



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

• If a capacitor of 1 μF or more is connected between 0 V and output or between +V and output, connect a 100 Ω 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 temperature.



PRESSURE / FLOW SENSORS INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS SENSOR SENSOR

> SIMPLE WIRE-SAVING UNITS WIRE-SAVING SYSTEMS

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Amplifier- separated
GX-F/H

GXL GL GX-M

GX-U/GX-FU/ GX-N

GX

GX-3SD GX-4SD GX-5MD

I/O circuit diagram



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

Wiring diagram



LASER SENSORS

SIMPLE WIRE-SAVING UNITS

2

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m m

Sensing range L

0.157

0

2

0

5 .197

0.

5 197

0.

10 0.394

Sensing object side length a (mm in)

SENSING CHARACTERISTICS (TYPICAL)

GX-3SD GX-4SD GX-5MD



Correlation between sensing object size and sensing range



GX-5SD

Sensing field



Correlation between sensing object size and sensing range

a iı

20 0.787

15 0.591

Iron sheet

Ö

10

0.394

Sensing object side length a (mm in)

a × a mm a → ‡ t 1 mm

15 0.50

t 0.039 in

As the sensing object size becomes smaller than the standard size (iron sheet 6 × 6 × 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

FA COMPONENTS Sensing field



Correlation between sensing object size and sensing range

20

0.787

2 Sensing range L (mm in)-Iron sheet a×amm<u>a×ai</u> -≧∔t1mm 0.039 in 0 0 5 0.197 10 0 394 15 0.591 20 0.78 Sensing object side length a (mm in)

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

GXL Sensing field

GX-F/H

Correlation between sensing object size and sensing range



0.157

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

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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 as given below.

Mounting with set screw

<Shielded of 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 $\textbf{GX-5M}\square,$ use a M3 or less set screw.

Model No.	Set screw tightening position A (mm in)	Tightening torque		
GX-5M□	5 to 10 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 of threaded type>

Set screw (M4 or less)	Model No.	B (mm in)	C (mm in)	Tightening torque	
	GX-3S□	5 to 10 0.197 to 0.394	3 0.118	0.29 N·m	
- c -//////	When using the C bracket			0.58 N·m	
	GX-4S□	5 to 10 0.197 to 0.394	3 0.118	0.58 N∙m	
	GX-5S□	8 to 20 0.315 to 0.787	5 0.197	0.29 N∙m	
	GX-8ML□	13 to 22	10	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 of threaded type> <Non-shielded of threaded type>





(2 pcs. attached for "**-R**" type only)

Model No. D (mm in)		Tightening torque			
CX EM-	2 to 3 0.079 to 0.118	0.49 N·m			
GY-2INI	3 0.118 or more	1.47 N·m			
CX 011-	3 to 11 0.118 to 0.433	1.47 N·m			
GX-8M□	11 0.433 or more	3.43 N·m			
	9 to 11 0.345 to 0.433	0.98 N·m			
	11 0.433 or more	3.43 N∙m			

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

• The root truncation of the threads with **GX-8M**□ and **GX-8ML**□ is shallow owing to strengthening of the sensors against tightening.

When tapping holes on equipment to fix the sensors, the prepared holes must be 0.283 in or more.







07-1/11
GXL
GL
GX-M

GX-U/GX-FU/ GX-N

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□	3 0.118
GX-4S□	3 0.118
GX-5S□	4 0.157
GX-5M□	3 0.118
GX-8M□	4 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□	ø12 ø0.472	3 0.118
GX-4S□	ø12 ø0.472	3 0.118
GX-5S□	ø15.4 ø0.606	5 0.197
GX-8ML□	ø30 ø1.181	10 0.394

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



GX-N

CURING SYSTEMS



Model No.	H (mm in)	J (mm in)
GX-3S□	16 0. <u>63</u> 0	16 0.630
GX-4S□	16 0. <u>63</u> 0	16 0.630
GX-5S□	20 0.787	15 0. 5 91
GX-5M□	10 0.394	10 0.394
GX-8M□	20 0.787	15 0. 5 91
GX-8ML□	50 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. Further, the sensing range also changes if the sensing object is smaller than the standard sensing object or if the sensing object is plated.

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.	0.7 approx.
Brass	0.36 approx.	0.61 approx.	0.4 approx.
Aluminum	0.30 approx.	0.58 approx.	0.35 approx.

Others

- Do not use during the initial transient time (10 ms) after the power supply is switched on.
- Make sure that stress by forcible bend or pulling is not applied directly to the sensor cable joint.
- GX-3S□, GX-4S□ and GX-5M□ do not incorporate a short-circuit protection circuit at the output. Do not connect them directly to a power supply or a capacitive load.

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LASER MARKERS











.<mark>748</mark> 30

The CAD data in the dimensions can be downloaded from our website.





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

GX-8ML□

Flat part

GX-4SD



M5 × 0.5 0.020 thread

MS-SS3 MS-SS5 Sensor mounting bracket for GX-3S□ (Accessory for GX-3S□ Sensor mounting bracket for GX-5S□ (Accessory for GX-5S□



Model No. Symbol	MS-SS3	MS-SS5		
А	16 0.630	18 0.709		
В	9 0.354	10 0.394		
С	6.3 0.248	8.3 0.327		
D	4.9 0.193	6.1 0.240		
Applicable model No.	GX-3S□	GX-5S□		

GXL GL GX-M GX-U/GX-FU/ GX-W

Selection Guide

Amplifier separate

GX-F/H

Material: Nylon 66

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