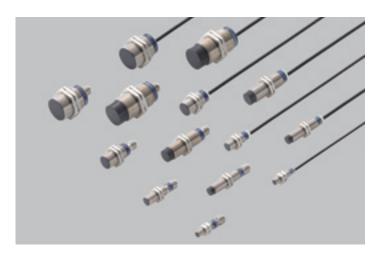
Cylindrical Inductive Proximity Sensor

GX-M SERIES







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 pigtaild type (DC 2-wire M8 type only, On sale soon)

• Strong resistance IP68 (GX-M8□: IP67)

ORDER GUIDE

DC 3-wire type (2 m cable length type)

_			0 : 41.10	Mod	del No.	Output
Type		Appearance	Sensing range (Note 1,2)	NPN output	PNP output	operation
	M8		Max. operation distance: 1.5 mm 0.06 in		GX-M8A-P	Normally open
	≥		(Stable sensing range 0 to 1.2 mm 0.05 in)	GX-M8B	GX-M8B-P	Normally closed
	M12		Max. operation distance: 2 mm 0.08 in	GX-M12A	GX-M12A-P	Normally open
Shielded	Σ		(Stable sensing range 0 to 1.6 mm 0.06 in)	GX-M12B	GX-M12B-P	Normally closed
Shie	M18		Max. operation distance: 5 mm 0.20 in	GX-M18A	GX-M18A-P	Normally open
	È		(Stable sensing range 0 to 4 mm 0.16 in)	GX-M18B	GX-M18B-P	Normally closed
	M30	Ex.) GX-M12 □	Max. operation distance: 10 mm 0.39 in	GX-M30A	GX-M30A-P	Normally open
	Ĭ	[(Stable sensing range 0 to 8 mm 0.32 in)	GX-M30B	GX-M30B-P	Normally closed
	M12		Max. operation distance: 7 mm 0.28 in	GX-MK12A	GX-MK12A-P	Normally open
p	È		(Stable sensing range 0 to 5.6 mm 0.22 in)	GX-MK12B	GX-MK12B-P	Normally closed
Non-shielded	M18		Max. operation distance: 12 mm 0.47 in	GX-MK18A	GX-MK18A-P	Normally open
n-sh	Ž		(Stable sensing range 0 to 9.6 mm 0.38 in)	GX-MK18B	GX-MK18B-P	Normally closed
ž	30		Max. operation distance: 22 mm 0.87 in	GX-MK30A	GX-MK30A-P	Normally open
	M30	Ex.) GX-MK12 □	(Stable sensing range 0 to 17.6 mm 0.69 in)	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)

Ту	pe	Appearance	Sensing range (Note 1,2)	Model No.	Output operation
	M8		Max. operation distance: 1.5 mm 0.06 in	GX-M8A-U	Normally open
	Σ	M12	(Stable sensing range 0 to 1.2 mm 0.05 in)	GX-M8B-U	Normally closed
	12		Max. operation distance: 2 mm 0.08 in	GX-M12A-U	Normally open
dard	Σ		(Stable sensing range 0 to 1.6 mm 0.06 in)	GX-M12B-U	Normally closed
Stan	Standard M18 M.		Max. operation distance: 5 mm 0.20 in	GX-M18A-U	Normally open
		(Stable sensing range 0 to 4 mm 0.16 in)	GX-M18B-U	Normally closed	
	M30		Max. operation distance: 10 mm 0.39 in	GX-M30A-U	Normally open
	ž		(Stable sensing range 0 to 8 mm 0.32 in)	GX-M30B-U	Normally closed
	M8		Max. operation distance: 2.5 mm 0.10 in	GX-ML8A-U	Normally open
	Σ		(Stable sensing range 0 to 2 mm 0.08 in)	GX-ML8B-U	Normally closed
Φ	M12	Ex.) GX-M12□-U	Max. operation distance: 4 mm 0.16 in	GX-ML12A-U	Normally open
rang	Σ		(Stable sensing range 0 to 3.2 mm 0.13 in)	GX-ML12B-U	Normally closed
Long range	18		Max. operation distance: 8 mm 0.32 in	GX-ML18A-U	Normally open
	M		(Stable sensing range 0 to 6.4 mm 0.25 in)	GX-ML18B-U	Normally closed
	M30		Max. operation distance: 15 mm 0.59 in	GX-ML30A-U	Normally open
	Ž		(Stable sensing range 0 to 12 mm 0.47 in)	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, On sale soon)

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.)

Туре		Model No.	Desc	iption	
g-in 'pe	04	CN-24C-C2	Length: 2 m 6.56 ft	Clamping ring :	
2 plu tor ty	Straight	CN-24C-C5	Length: 5 m 16.40 ft	ø14mm 0.55 in	
For M12 plug-in connector type	Elbow	CN-24CL-C2	Length: 2 m 6.56 ft	Cable outer :	
요 <u>8</u>	EIDOW	CN-24CL-C5	Length: 5 m 16.40 ft	ø5.3mm 0.21 in	

Mating cable

Straight type







SPECIFICATIONS

DC 3-wire type

		Туре		Shielde	ed type		1	Non-shielded typ	е	
		Normally open	GX-M8A□	GX-M12A□	GX-18A□	GX-M30A□	GX-MK12A□	GX-MK18A□	GX-MK30A□	
Item		Normally closed	GX-M8B□	GX-M12B□	GX-18B□	GX-M30B□	GX-MK12B□	GX-MK18B□	GX-MK30B□	
Max. o	operation	n 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		
Stand	lard ser	nsing object	Iron sheet 8 × 8 × t 1 mm 0.32 × 0.32 × t 0.04 in	Iron sheet 12 × 12 × t1 mm 0.47 × 0.47 × t 0.04 in	Iron sheet 18 × 18 × t 1mm 0.71 × 0.71 × t 0.04 in	Iron sheet 30 × 30 × t 1 mm 1.18 × 1.18 × t 0.04 in	Iron sheet 24 × 24 × t 1 mm 0.94 × 0.94 × t 0.04 in	Iron sheet 24 × 24 × t 1 mm 0.94 ×0.94 × t 0.04 in	Iron sheet 45 × 45 × t 1 mm 1.77 × 1.77 × t 0.04 in	
Hyste	eresis (N	lote 2)		15 %	or less of operation	on distance (with s	tandard sensing o	bject)		
Repe	atability	(Note 2)			Along sensing ax	is: 5 % or less of o	peration distance			
Suppl	ly voltag	је			12 to 24 V DC	±10 % Ripple P-	P 10 % or less			
Curre	nt cons	umption (Note 4)				10 mA or less				
Outpu	ut		<npn output="" typ<br="">NPN open-colled • Maximum sink • Applied voltage • Residual voltage</npn>	ctor transistor current 200 mA :: 24 V DC or less	(between output a	PNP op • Maxin nd 0 V) • Applie	output type> pen-collector trans num source currer ed voltage: 24 V D ual voltage 2 V or	it 200 mA C or less (between	output and + V)	
	Utilizati	on category	DC-12 or DC-13							
	Short-ci	ircuit protection	Incorporated							
Max.	respons	se frequency	5 kHz	5 kHz	2 kHz	1 kHz	2.5 kHz	1 kHz	0.5 kHz	
Opera	ation inc	dicator	Yellow LED (lights up when the output is ON)							
	Pollutio	n degree	3 (industrial environment)							
nce	Protecti	ion	IP67 (IEC) IP69K (DIN), IP68 (IEC) (2 m cable length type only) , IP67 (IEC) (M12 plug-in connector type only)							
sista	Ambien	t temperature		-25 to +70 °C -13 to +158 °F, Storage: -40 to +85 °C -40 to +185 °F						
Environmental resistance	Ambien	t humidity			50 % RH	or less (at +70 °C	+158 °F)			
ment	EMC					EN 60947-5-2				
iron	Voltage	withstandability		500 V AC for or	ne min. between al	I supply terminals	connected togethe	er and enclosure		
Ę,	Vibratio	n resistance		10 to 55 Hz freque	ency, 0.5 mm 0.02	in amplitude in X,	Y and Z directions	for 1.5 hours each	<u> </u>	
	Shock r	resistance		294 m/s ² acc	eleration (30 G ap	prox.) in X, Y and 2	Z directions for three	ee times each		
Sensing range variation (Note 2) Within ±10 % fluctuation of sensing range at +23 °C +73 °F and rated voltage in the ra					in the range of					
Mater	rial				Enclosure: Brass	s (Nickel plated), S	ensing part: PPS			
Cable (except for M12 plug-in connector type) 0.44 mm² (0.15 mm² for G			n ² (0.15 mm ² for G	X-M8 □) 3-core cab	tyre cable, 2 m 6.5	56 ft long				
Cable	extens	ion		Extension	up to total 10 m 32	2.80 ft is possible w	vith 0.34 mm ² , or n	nore, cable.		
Net we	cigiil	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.	
(Note	5) /	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.	
Acces	ssories					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

		Туре		Standa	rd 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)
Item	1	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 %
Stab	le sens	sing 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
Stan	dard se	ensing object	Iron sheet 8 × 8 × t 1 mm 0.32 × 0.32 × t 0.04 in	Iron sheet 12 × 12 × t1 mm 0.47 × 0.47 × t 0.04 in	Iron sheet 18 × 18 × t 1mm 0.71 × 0.71 × t 0.04 in	Iron sheet 30 × 30 × t1 mm 1.18 × 1.18 × t 0.04 in	Iron sheet 8 × 8 × t 1 mm 0.32 × 0.32 × t 0.04 in	Iron sheet 12 × 12 × t1 mm 0.47 × 0.47 × t 0.04 in	Iron sheet 18 × 18 × t1 mm 0.71 × 0.71 × t 0.04 in	Iron sheet 30 × 30 × t 1 mm 1.18 × 1.18 × t 0.04 in
Hyst	eresis ((Note 2)			15 % or less of o	peration distance	ce (with standard	sensing object)	
Repe	eatabili	ty (Note 2)			Along sens	sing axis: 5 % or	less of operation	n distance		
Supp	oly volta	age			12 to 24	4 V DC ±10 %	Ripple P-P 10 %	or less		
Curr	ent con	sumption (Note 4)				0.5 mA	or less			
Outp	out				• Loa	contact DC 2-wi d current: 1.5 to sidual voltage: 4.	100 mA	e 5)		
	Utiliza	tion category				DC-12 c	or DC-13			
	Short-	circuit protection				Incorp	orated			
Max.	. respoi	nse frequency	1 kHz	1 kHz	1.2 kHz	1.3 kHz	1.1 kHz	1.3 kHz	1.5 kHz	0.8 kHz
Ope	ration in	ndicator			Yellow	LED (lights up	when the output	is ON)		
	Polluti	on degree	3 (Industrial environment)							
nce	Protec	ction	IP67 (IEC) IP69K (DIN), IP68 (IEC) (2 m cable length type only) , IP67 (IEC) (M12 plug-in connector type only)							
Environmental resistance	Ambie	ent temperature		-2	5 to +70 °C -13	to +158 °F, Stor	rage: -40 to +85	°C –40 to +185	°F	
talre	Ambie	ent humidity			50	% RH or less (a	at +70 °C +158 °	F)		
ment	EMC					EN 609	947-5-2			
/iron	Voltag	ge withstandability		500 V AC f	or one min. betv	veen all supply t	erminals connec	ted together and	d enclosure	
En	Vibrat	ion resistance		10 to 55 Hz fr	equency, 0.5 mr	n 0.02 in amplitu	ide in X, Y and 2	Z directions for 1	.5 hours each	
	Shock	resistance		294 m/s ²	acceleration (30	O G approx.) in λ	K, Y and Z direct	ions for three tin	nes each	
Sens (Note		nge variation			uation of sensing ture and supply		C +73 °F and ra	ted voltage in th	e range of	
Mate	erial				Enclosure	: Brass (Nickel p	olated), Sensing	part: PPS		
Cable	(except for	M12 plug-in connector type)		0.44	mm² [0.15 mm² 1	for GX-M(L)8 □-U	2-core cabtyre	cable, 2 m 6.56 ft	long	
Cabl	e exter	nsion		Extens	sion up to total 1	0 m 32.80 ft is p	ossible with 0.3	4 mm ² , or more,	cable.	
	veight	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.
(Note		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.
Acce	essories	S				Nut: 2	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.

- 6) The weight includes the weight of two nuts.
 7) M12 pigtailed type (**GX-M8**□-**U-J** and **GX-ML8**□-**U-J**) is an upcoming product.

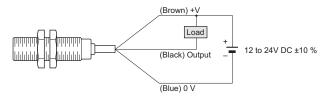
³⁾ The maximum operation distance stands for the maximum distance for which the sensor can detect the standard sensing object.
The stable sensing range stands for the sensing range for which the sensor can stably detect the standard sensing object even if there is an ambient temperature drift and/or 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.

WIRING DIAGRAMS

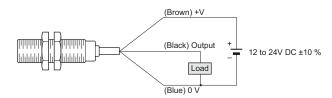
DC 3-wire type

Wiring diagram

NPN output type



PNP output type



Connector pin position

M12 connector



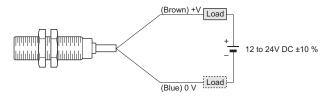
- Normally Open
- 1:+V 2: Not connected
- 3:0V
- 4 : Output
- 1:+V 2:Output

 - 3:0V
- 4: Not connected

Normally Closed

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

- 4:0V

- Normally Closed

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

Normally Open

(GX-M8□-U-J and GX-ML8□-U-J only, On sale soon)

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

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.



		Tightening torque			
Model No.	Sensor size	Sensor	Connector (Note)		
	M8	5 N·m	2 N·m		
GX-M⊓	M12	6 N·m	2 N·m		
GX-IVI	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		

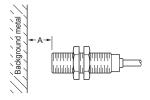
Note: Connector is equipped with -Z type or -J type.

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.

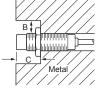


Typo	A (mm in)					
Type	M8	M12	M18	M30		
DC 3-wire shielded type	3	4	10	20		
	0.12	0.16	0.39	0.79		
DC 3-wire non-shielded type	-	21 0.83	36 1.42	66 2.60		
DC 2-wire standard type	4.5	6	15	30		
	0.18	0.23	0.59	1.18		
DC 2-wire long range type	8	12	25	45		
	0.32	0.47	0.98	1.77		

Embedding of the sensor in metal

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

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



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

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
-D-	

Type		D (mm in)				E (mm in)			
туре	M8	M12	M18	M30	M8	M12	M18	M30	
DC 3-wire shielded type	18	24	60	120	3	4	10	20	
	0.71	0.94	2.36	4.72	0.12	0.16	0.39	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	24	60	120	3	4	10	20	
	0.71	0.94	2.36	4.72	0.12	0.16	0.39	0.77	
DC 2-wire long range type	30	50	100	180	5	8	16	30	
	1.18	1.97	3.93	7.09	0.20	0.32	0.63	1.18	

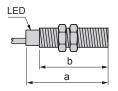
Wiring

- 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

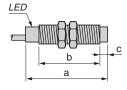
- Our products have been developed / produced for industrial use only.
- Avoid using a product where there is excessive vapor, dust or corrosive gas, or in a place where it could be exposed directly to water or chemicals.
- Take care that the sensor does not come in direct contact with water, oil, grease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

DIMENSIONS (Unit: mm in)

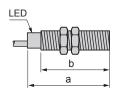


DC 3-wire type

200 1110 (3)00							
Sensors		2 m cable leng	gth type (mm in)	M12 plug-in co	M12 plug-in connector type (mmin)		
Shielded type		а	b	а	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 len	gth type (mm	in)	M12 plug-in connector type (mm in)			
Non-shielded type		а	b	С	a	b	С	
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, On sale soon)	
Standard type, Long range type		а	b	а	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

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