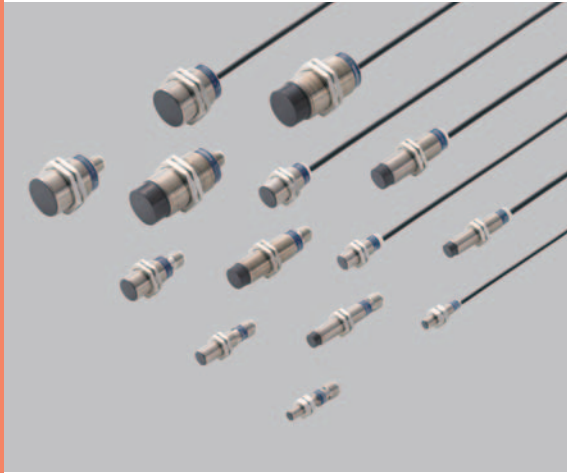


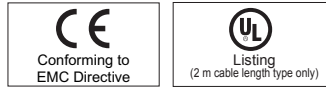
GX-M SERIES

Related Information

- General terms and conditions..... F-7
- Sensor selection guide P.803~
- Glossary of terms..... P.1482~
- General precautions P.1485~



panasonic.net/id/pidsx/global



Features

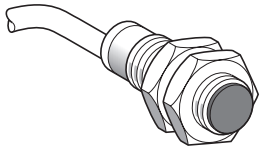
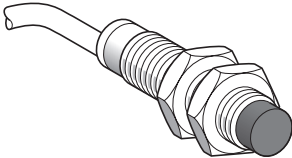
- **Wide product range**
 - Types: DC 3-wire shielded type
 - DC 3-wire non-shielded type
 - DC 2-wire standard type
 - DC 2-wire long range type
- Size: M8, M12, M18, M30
- Connector: 2 m cable length type
 - M12 plug-in connector type
 - M12 pigtailed type (DC 2-wire M8 type only)
- **Strong resistance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



Wide variations

ORDER GUIDE

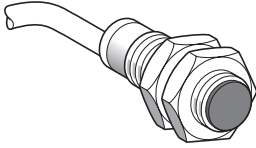
DC 3-wire type (2 m cable length type)

Type	Appearance	Sensing range (Note 1,2)	Model No.		Output operation
			NPN output	PNP output	
Shielded	 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
		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
		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
		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	 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
		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
		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.

- FIBER SENSORS
- LASER SENSORS
- PHOTOELECTRIC SENSORS
- MICRO PHOTOELECTRIC SENSORS
- AREA SENSORS
- LIGHT CURTAINS / SAFETY COMPONENTS
- PRESSURE / FLOW SENSORS
- INDUCTIVE PROXIMITY SENSORS**
- PARTICULAR USE SENSORS
- SENSOR OPTIONS
- SIMPLE WIRE-SAVING UNITS
- WIRE-SAVING SYSTEMS
- MEASUREMENT SENSORS
- STATIC ELECTRICITY PREVENTION DEVICES
- LASER MARKERS
- PLC
- HUMAN MACHINE INTERFACES
- ENERGY CONSUMPTION VISUALIZATION COMPONENTS
- FA COMPONENTS
- MACHINE VISION SYSTEMS
- UV CURING SYSTEMS
- Selection Guide
- Amplifier Built-in
- Amplifier-separated
- GX-F/H
- GXL
- GL
- GX-M**
- GX-U/GX-FU/GX-N
- GX

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		
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		
Long range	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.

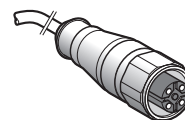
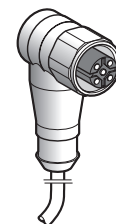
When ordering this type, "J" for the M12 pigtailed type to the model No.

(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 : \varnothing 14mm **0.55 in**
Cable outer : \varnothing 5.3mm **0.21 in**

Mating cable**• Straight type****• Elbow type**

FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS / SAFETY COMPONENTS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Selection Guide

Amplifier Built-in

Amplifier-separated

GX-F/H

GXL

GL

GX-M

GX-U/GX-FU/GX-N

GX