

GX-M SERIES

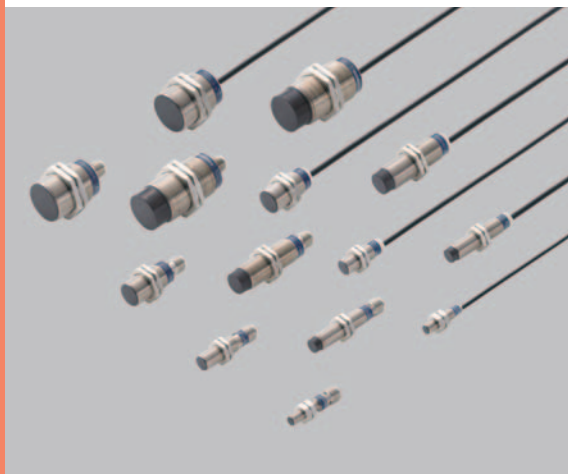
Related Information

■ 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
Conforming to
EMC DirectiveListing
(2 m cable length type only)

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)

2-wire type
availablePNP output
type available

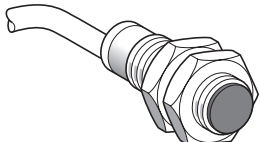
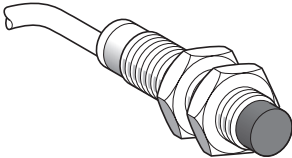
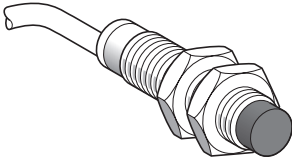
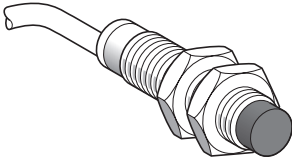
Oil resistant

Metal embedding
possible

Wide variations

ORDER GUIDE

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

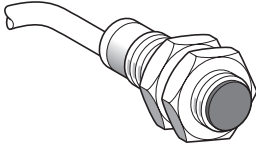
Type		Appearance	Sensing range (Note 1, 2)	Model No.		Output operation
				NPN output	PNP output	
Shielded	M8		Max. operation distance: 1.5 mm 0.06 in (Stable sensing range 0 to 1.2 mm 0.05 in)	GX-M8A	GX-M8A-P	Normally open
				GX-M8B	GX-M8B-P	Normally closed
	M12			GX-M12A	GX-M12A-P	Normally open
				GX-M12B	GX-M12B-P	Normally closed
Non-shielded	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			GX-M30A	GX-M30A-P	Normally open
				GX-M30B	GX-M30B-P	Normally closed
Non-shielded	M12		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			GX-MK18A	GX-MK18A-P	Normally open
				GX-MK18B	GX-MK18B-P	Normally closed
Non-shielded	M30		Max. operation distance: 12 mm 0.47 in (Stable sensing range 0 to 9.6 mm 0.38 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
	M8			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
	M12			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
	M18			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
	M30			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
	M8			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
	M12			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
	M18			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
	M30			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.

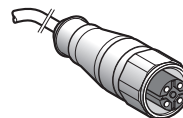
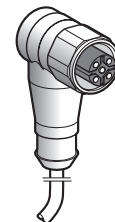
When ordering this type, "J" for the M12 pigtailed type to the model No.

(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**FIBER
SENSORSLASER
SENSORSPHOTO-
ELECTRIC
SENSORSMICRO
PHOTO-
ELECTRIC
SENSORSAREA
SENSORSLIGHT
CURTAINS /
SAFETY
COMPONENTSPRESSURE /
FLOW
SENSORSINDUCTIVE
PROXIMITY
SENSORSPARTICULAR
USE
SENSORSSENSOR
OPTIONSSIMPLE
WIRE-SAVING
UNITSWIRE-SAVING
SYSTEMSMEASURE-
MENT
SENSORSSTATIC
ELECTRICITY
PREVENTION
DEVICESLASER
MARKERS

PLC

HUMAN
MACHINE
INTERFACESENERGY
CONSUMPTION
VISUALIZATION
COMPONENTSFA
COMPONENTSMACHINE
VISION
SYSTEMSUV
CURING
SYSTEMSSelection
GuideAmplifier
Built-inAmplifier-
separated

GX-F/H

GXL

GL

GX-MGX-UG/GX-FU/
GX-N

GX