Cylindrical Compact Inductive Proximity Sensor Amplifier Built-in
GX SERIES

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

panasonic.net/id/pidsx/global

Conforming to EMC Directive

Recognition (Excluding GX-4S□ and 5 m cable length type)

Flexible cable type available

Metal embedding possible

Robust enclosure and flexible cable types are also available

VARIETIES

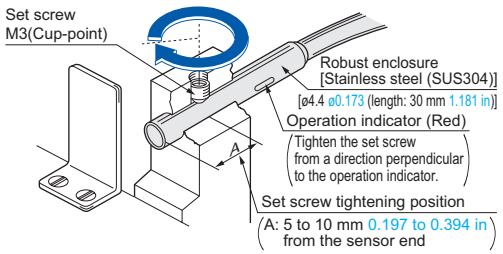
Miniature GX-3S□

GX-3S□ is an amplifier built-in inductive proximity sensor having a diameter of just ø3.8 mm ø0.150 in.

Robust housing GX-4S□

The **GX-4S□** uses a robust stainless steel enclosure. The tightening torque can be 0.58 N·m or less. (2 times compared with conventional models)

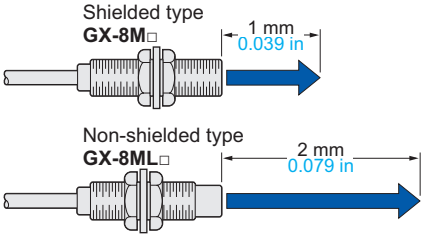
Tightening torque: **0.58 N·m or less**



BASIC PERFORMANCE

Long sensing range GX-8ML□

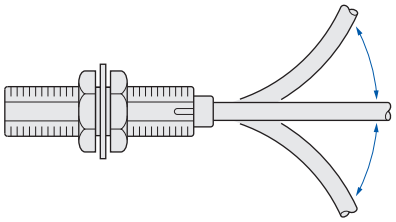
The non-shielded type (**GX-8ML□**) has twice the sensing range of the shielded type (**GX-8M□**), although having the same size. Hence, it allows margin against sensing distance variations.



ENVIRONMENTAL RESISTANCE

Ten times greater bending durability (Compared with conventional models) GX-□-R

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



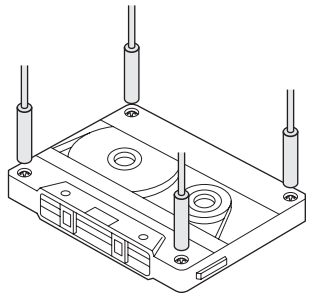
FIBER SENSORS
LASER SENSORS
PHOTOELECTRIC SENSORS
MICRO PHOTOELECTRIC SENSORS
AREA SENSORS
LIGHT CURTAINS / SAFETY COMPONENTS
PRESSURE / FLOW SENSORS
INDUCTIVE PROXIMITY SENSORS
PARTICULAR USE SENSORS
SENSOR OPTIONS
SIMPLE WIRE-SAVING UNITS
WIRE-SAVING SYSTEMS
MEASUREMENT SENSORS
STATIC ELECTRICITY PREVENTION 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

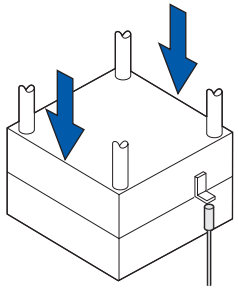
GX-F/H
GXL
GL
GX-M
GX-U/GX-FU/GX-N
GX

APPLICATIONS

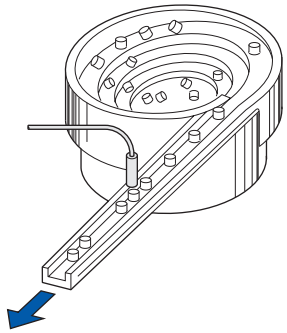
Sensing screws on cassette



Sensing the punch of a die



Counting parts



ORDER GUIDE

Type		Appearance (mm in)	Sensing range (Note)	Model No.	Supply voltage	Output	Output operation
Shielded type	Non-threaded type	ø3.8 ø0.150, 30 1.181	Maximum operation distance 0.8 mm 0.031 in; (0 to 0.6 mm 0 to 0.024 in) Stable sensing range	GX-3S	12 to 24 V DC ±10 %	NPN open-collector transistor	Normally open
				GX-3SB			Normally closed
		Robust enclosure type ø4.4 ø0.173, 30 1.181	0.8 mm 0.031 in; (0 to 0.6 mm 0 to 0.024 in)	GX-4S			Normally open
				GX-4SB			Normally closed
		ø5.4 ø0.213, 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		Normally open
				GX-5SB			Normally closed
	Threaded type	M5, 30 1.181	0.8 mm 0.031 in; (0 to 0.6 mm 0 to 0.024 in)	GX-5M	12 to 24 V DC ±10 %		Normally open
				GX-5MB			Normally closed
		M8, 30 1.181	1 mm 0.039 in; (0 to 0.8 mm 0 to 0.031 in)	GX-8M	10 to 30 V DC		Normally open
				GX-8MB			Normally closed
Non-shielded type		M8, 30 1.181	2 mm 0.079 in; (0 to 1.6 mm 0 to 0.063 in)	GX-8ML			Normally open
				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.