DC 2-wire type Micro-size Inductive Proximity Sensor Amplifier Built-in GXL SERIES





High performance in micro-size design

BASIC PERFORMANCE

Versatile mounting

Since the sensor is fingertip size, it can be mounted in a tight space.





GX-F/H

GX-U/GX-FU/ GX-N

GL

GX

ENVIRONMENTAL RESISTANCE

Flexible cable type

The bending durability of its cable is ten times that of the conventional model. The sensor can be mounted on a moving table or a robot arm.



Reduced wiring operation

The wiring cost of the DC 2-wire type is 2/3 that of a conventional model.

Besides, the possibility of miswiring is reduced.

Particularly convenient when many sensors are used.

Wiring of the 3-wire type is cumbersome.

Wiring of the 2-wire type is simple and neat.



Others

Cost performance

Achieve high performance at an affordable price.

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS MEASURE-MENT SENSORS

STATIC CONTROL DEVICES

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION

VISUALIZATION COMPONENTS FA COMPONENTS MACHINE VISION SYSTEMS

UV CURING SYSTEMS



ORDER GUIDE

GXL-8 type

Ту	ре	Appearance (mm in)	Sensing range (Note 1)	Model No. (Note 2)	Output	Output operation
	g			GXL-8FU		Normally open
	sensing	7.4	Maximum	GXL-8FUI	Non-contact DC 2- wire type	Normany open
2-wire	Front s	8 0.315 20 0.787	0.315	GXL-8FUB		Normally closed
	ŗ			GXL-8FUIB		
DC 2	D		(0 to 1.8 mm) (0 to 0.071 in)	GXL-8HU		Normally open
	sensing			GXL-8HUI		Normany open
	Top s(GXL-8HUB		Normally closed
	F	0.315		GXL-8HUIB		

Notes: 1) 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) " I " in the model No. indicates a different frequency type.

GXL-15 (Standard) type

T	уре	Appearance (mm in)	Sensing range (Note 1)	Model No. (Note 2)	Output	Output operation	
	βL			GXL-15FU		Normally open	Selection Guide
	sensing	0.315	Maximum	GXL-15FUI		Normally open	Amplifier Built-in
	Front s		operation distance	GXL-15FUB			Amplifier- separated
2-wire	Fro	15 0.591 1.260	5 mm 0.197 in	GXL-15FUIB		Normally closed	
DC 2-	6	0.591 0.591 0.591 15 0.591 1.181	Stable sensing range	GXL-15HU	Non-contact DC 2- wire type	Normally open	GX-F/H
	sensing			GXL-15HUI			GXL GL
	Top se			GXL-15HUB		Normally closed	GX-U/GX-FU/
	T			GXL-15HUIB			GX-N GX

Notes: 1) 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) " I " in the model No. indicates a different frequency type.

ORDER GUIDE

GXL-15 (Long sensing range) type ··· For mounting on non-magnetic material (Note 3)

0-	Туре		Appearance (mm in)	Sensing range (Note 1)	Model No. (Note 2)	Output	Output operation
IC RS EA RS		sensing	0.315 15 0.591 0.50	Maximum operation	GXL-15FLU GXL-15FLUI	Non-contact DC 2- wire type	Normally open
HT NS	-wire	Front se		distance 8 mm 0.315 in	GXL-15FLUB GXL-15FLUIB		Normally closed
E/ DW RS	DC 2-1	sensing	0.591 0.591 0.591 1.181	(0 to 6.4 mm) (0 to 0.252 in)	GXL-15HLU GXL-15HLUI		Normally open
AR ISE IRS		Top sen		Stable sensing range	GXL-15HLUB		Normally closed
RS					GXL-15HLUIB		

Notes: 1) 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) "I" in the model No. indicates a different frequency type.

3) To mount the long sensing range GXL-15 type on a magnetic body, such as iron, the enclosed aluminum sheet, or any other aluminum sheet having a minimum size of 30 × 39.5 × t 0.3 mm 1.181 × 1.555 × t 0.012 in (GXL-15HLU type: 30 × 30 × t 0.3 mm 1.181 × 1.181 × t 0.012 in), should be inserted between the sensor and the magnetic body.

However, it is not necessary to use the aluminum sheet when mounting on a non-magnetic body, such as, aluminum or an insulator.

Flexible cable type and 5 m 16.404 ft cable length type

Flexible cable type and 5 m 16.404 ft cable length type (standard: 1 m 3.281 ft) are also available.

• Table of Model Nos.

Ту	уре	Standard Flexible cable type 5		5 m 16.404 ft cable length type	Flexible cable of 5 m 16.404 ft cable length type
	ing	GXL-8FU GXL-8FU-R GXL-8FU-R GXL-8FU-R GXL-8FU-R		GXL-8FU-C5	GXL-8FU-R-C5
	ens	GXL-8FUI	GXL-8FUI-R	GXL-8FUI-C5	GXL-8FUI-R-C5
	Front sensing	GXL-8FUB	GXL-8FUB-R	GXL-8FUB-C5	GXL-8FUB-R-C5
	15	GXL-8FUIB	GXL-8FUIB-R	GXL-8FUIB-C5	GXL-8FUIB-R-C5
	ng	GXL-8HU	GXL-8HU-R	GXL-8HU-C5	GXL-8HU-R-C5
	sensing	GXL-8HUI	GXL-8HUI-R	GXL-8HUI-C5	GXL-8HUI-R-C5
	p se	GXL-8HUB	GXL-8HUB-R	GXL-8HUB-C5	GXL-8HUB-R-C5
	Top	GXL-8HUIB	GXL-8HUIB-R	GXL-8HUIB-C5	GXL-8HUIB-R-C5
	sensing	GXL-15FU	GXL-15FU-R	GXL-15FU-C5	GXL-15FU-R-C5
	ens	GXL-15FUI	GXL-15FUI-R	GXL-15FUI-C5	GXL-15FUI-R-C5
e	uts	GXL-15FUB	GXL-15FUB-R	GXL-15FUB-C5	GXL-15FUB-R-C5
2-wire	Front	GXL-15FUIB	GXL-15FUIB-R	GXL-15FUIB-C5	GXL-15FUIB-R-C5
0	bu	GXL-15HU	GXL-15HU-R	GXL-15HU-C5	GXL-15HU-R-C5
DC	sensing	GXL-15HUI	GXL-15HUI-R	GXL-15HUI-C5	GXL-15HUI-R-C5
	b Se	GXL-15HUB	GXL-15HUB-R	GXL-15HUB-C5	GXL-15HUB-R-C5
	Top	GXL-15HUIB	GXL-15HUIB-R	GXL-15HUIB-C5	GXL-15HUIB-R-C5
	bu	GXL-15FLU	GXL-15FLU-R	GXL-15FLU-C5	GXL-15FLU-R-C5
	sensing	GXL-15FLUI	GXL-15FLUI-R	GXL-15FLUI-C5	GXL-15FLUI-R-C5
	nts	GXL-15FLUB	GXL-15FLUB-R	GXL-15FLUB-C5	GXL-15FLUB-R-C5
	Front	GXL-15FLUIB	GXL-15FLUIB-R	GXL-15FLUIB-C5	GXL-15FLUIB-R-C5
	ng	GXL-15HLU	GXL-15HLU-R	GXL-15HLU-C5	GXL-15HLU-R-C5
	sensing	GXL-15HLUI	GXL-15HLUI-R	GXL-15HLUI-C5	GXL-15HLUI-R-C5
	0 SE	GXL-15HLUB	GXL-15HLUB-R	GXL-15HLUB-C5	GXL-15HLUB-R-C5
	Top	GXL-15HLUIB	GXL-15HLUIB-R	GXL-15HLUIB-C5	GXL-15HLUIB-R-C5



Selection Guide Amplifier Built-in Amplifierseparated

GX-F/H

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

779

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS

PRESSURE / FLOW SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC CONTROL DEVICES

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS MACHINE VISION SYSTEMS

ORDER GUIDE

Accessories

- MS-GXL8-4 (Sensor mounting bracket for GXL-8FU, GXL-8HU type)
- MS-A15F (Aluminum sheet for GXL-15FLU type)
 MS-A15H (Aluminum sheet for GXL-15HLU type)



1 pc. each of M3 (length: 12 mm 0.472 in) truss head screw, nut, spring washer and plain washer is attached.

OPTIONS

Designation	Model No.	Description	• MS-GXL
Sensor mounting	MS-GXL15	Mounting bracket for GXL-15 type	Î
bracket	t MS-GXL15-2	Mounting bracket for GXL-15F type	

mounting bracket

• MS-A15F • MS-A15H

L15

Ś



Screws are not supplied.

MS-GXL15

Screws are not supplied.

UV CURING SYSTEMS Selection

1	Guide
	Amplifier Built-in
	Amplifier- separated

LASER SENSORS

SPECIFICATIONS

DC 2-wire type

SENSORS	DU	2-0011	e type						
PHOTO- ELECTRIC SENSORS	Type						GXL-	15 type	
SENSORS MICRO PHOTO- ELECTRIC SENSORS		\backslash	Туре	GXL-	8 type	Standard			sing range nagnetic body) (Note 2)
AREA			Standard	Front sensing	Top sensing	Front sensing	Top sensing	Front sensing	Top sensing
SENSORS	Item	ı \	Model No.	GXL-8FU	GXL-8HU	GXL-15FU	GXL-15HU	GXL-15FLU	GXL-15HLU
LIGHT CURTAINS	Max	. opera	tion distance (Note 3)	2.5 mm 0.0	98 in ±20 %	5 mm 0.19	97 in ±10 %	8 mm 0.31	5 in ±10 %
PRESSURE /	Stab	le sen	sing range (Note 3)	0 to 1.8 mm	0 to 0.071 in	0 to 4 mm () to 0.157 in	0 to 6.4 mm	0 to 0.252 in
PRESSURE / FLOW SENSORS	Star	idard s	ensing object	Iron sheet 15 0.591 × 0.59			× 20 × t 1 mm 7 × t 0.039 in		× 30 × t 1 mm 1 × t 0.039 in
INDUCTIVE PROXIMITY SENSORS	Hyst	eresis			20 % or les	ss of operation distant	ce (with standard sen	sing object)	
PARTICULAR USE SENSORS	Rep	eatabil	ity		Along sensing a	xis, perpendicular to	sensing axis: 0.04 mr	n 0.002 in or less	
SENSOR	Sup	ply vol	tage		12	2 to 24 V DC ±10 %	Ripple P-P 10 % or le	ess	
	Curr	ent co	nsumption (Note 4)			0.8 mA	or less		
SIMPLE WIRE-SAVING UNITS WIRE-SAVING	Outp	out		Non-contact DC 2-w • Load current: 3 to • Residual voltage				wire type 3 to 100 mA (Note 5) ge: 3 V or less (Note 6	6)
SYSTEMS		Utiliza	ation category			DC-12 c	or DC-13	<u> </u>	- /
MEASURE- MENT SENSORS			-circuit protection		Incorporated				
STATIC									
CONTROL DEVICES	Operation indicator			Normally closed type: Red LED (lights up when the output is ON)					
ENDOSCOPE	2-color indicator			Normally open type: Lights up in green under stable sensing condition					
LASER MARKERS	2-00					Lights up in red	d under unstable sens	sing condition	
MARKERS		Pollu	tion degree	3 (Industrial environment)					
PLC / TERMINALS	e	Prote	ction	IP67 (IEC), IP67 g (JEM)					
HUMAN MACHINE	Environmental resistance	Ambi	ent temperature		–25 to +70 °C	C –13 to +158 °F, Sto	rage: -30 to +80 °C -	22 to +176 °F	
INTERFACES	l resi	Ambi	ent humidity			45 to 85 % RH, Sto	rage: 35 to 95 % RH		
CONSUMPTION VISUALIZATION COMPONENTS	ienta	EMC				EN 609	947-5-2		
COMPONENTS	ronm	Volta	ge withstandability	1	,000 V AC for one min	n. between all supply	terminals connected	together and enclosur	е
	Envi	Insula	ation resistance		50 M Ω , or more, with 250 V DC megger between all supply terminals connected together and enclosure				
MACHINE VISION SYSTEMS	ON MS -		tion resistance	10 to 55 Hz frequency, 1.5 mm 0.059 in amplitude in X, Y and Z directions for two hours each					
UV CURING	-		k resistance					s for three times each	
CURING SYSTEMS	Senar		Temperature characteristics	Over ambien				of sensing range at +	20 °C +68 °F
	varia	ation	Voltage characteristics		Within	1 ±2 % for ±10 % fluct	,		
Selection Guide	Material			Enclosure	PBT, Indicator part: I	Polyalylate	Enclosure: PET Indicator part: Polyalylate	Enclosure: PBT Indicator part: Polyalylate	Enclosure: PET Indicator part: Polyalylate
Amplifier Built-in Amplifier- separated	Cab	le (Not	e 7)	0.15 mm ² 2-core or resistant cable, 1		0.2 mm ² 2-0	core oil, heat and cold	I resistant cable, 1 m	3.281 ft long
	Cab	le exte	nsion		Extension up to to	otal 50 m 164.042 ft is	s possible with 0.3 mr	n ² , or more, cable.	
GX-F/H	Weight			Net weight:	12 g approx.		Net weight:	20 g approx.	

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

2) To mount the long sensing range type on a magnetic body, such as iron, the enclosed aluminum sheet, or any other aluminum sheet having a minimum size of 30 × 39.5 × t 0.3 mm 1.181 × 1.555 × t 0.012 in (GXL-15HLU type: 30 × 30 × t 0.3 mm 1.181 × 1.181 × t 0.012 in), should be inserted between the sensor and the magnetic body.

MS-A15F

(Aluminum sheet): 1 pc.

MS-A15H

(Aluminum sheet): 1 pc.

However, it is not necessary to use the aluminum sheet when mounting on a non-magnetic body, such as, aluminum or an insulator.

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.

MS-GXL8-4

(Sensor mounting bracket): 1 set

5) The maximum load current varies with the ambient temperature. Refer to "I/O CIRCUIT AND WIRING DIAGRAMS" for more details.

6) When the cable is extended, the residual voltage becomes larger according to the resistance of the cable.

The residual voltage of 5 m 16.404 ft cable length type increases by +0.1 V.

7) The flexible cable type (model No. with suffix "-R") has a 0.15 mm² (GXL-15 type: 0.2 mm²) flexible, oil, heat and cold resistant cabtyre cable, 1 m 3.281 ft long.

Accessories

LASER SENSORS

I/O CIRCUIT AND WIRING DIAGRAMS

DC 2-wire type





SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC

CONTROL DEVICES

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

ENERGY

VISUALIZATION COMPONENTS COMPONENTS

MACHINE VISION

UV CURING SYSTEMS

Selection Guide

Amplifier Built-in

Amplifie

GX-F/H

GL

GX-N

GX

GX-U/GX-FU/

SENSING CHARACTERISTICS (TYPICAL)

GXL-8 type



Correlation between sensing object size and sensing range (DC 2-wire type)



GXL-15 (Standard) type

Sensing field



Correlation between sensing object size and sensing range



As the sensing object size becomes smaller than the standard size (iron sheet 20 × 20 × t 1 mm 0.787 × 0.787 × t 0.039 in), the sensing range shortens as shown in the left figure.

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

GXL-8 type

- · The tightening torque should be 0.5 N·m or less.
- To mount the sensor with a nut, the thru-hole diameter should be ø3.4 mm ø0.134 in. With the attached mounting screw and nut, take care that the thickness of the mounting plate should be 2.3 mm 0.091 in or less.
- · If a screw other than the attached screw is used, make sure to use a M3 truss head screw.

Do not use a flat head screw or a pan head screw.



Correlation between sensing object size and sensing range (NPN output type)



As the sensing object size becomes smaller than the standard size (iron sheet 15 × 15 × t 1 mm 0.591 × 0.591 × t 0.039 in), the sensing range shortens as shown in the left figures.

Correlation between sensing

GXL-15 (Long sensing range) type

Sensing field



As the sensing object size becomes smaller than the standard size (iron sheet 30 × 30 × t 1 mm 1.181 × 1.181 × t 0.039 in), the sensing range shortens as shown in the left figure.

Refer to General precautions.

M3 pan head screw

GXL-15 type

- The tightening torque should be 1 N·m or less.
- · To mount the sensor with the optional sensor mounting bracket MS-GXL15, the thru-hole diameter should be ø3.4 mm ø0.134 in.
- · Screw, nut or washers are not supplied. Please arrange them separately.
- · To mount the long sensing range type on a magnetic body, such as iron, the enclosed aluminum sheet, or any other aluminum sheet having a minimum size of 30 × 39.5 × t 0.3 mm 1.181 × 1.555 × t 0.012 in (GXL-15HLU type: 30 × 30 × t 0.3 mm 1.181 × 1.181 × t 0.012 in), should be inserted between the sensor and the magnetic body. However, it is not necessary to use the aluminum sheet when mounting on a nonmagnetic body, such as, aluminum or an insulator.
- · When mounting the inductive proximity sensor with the optional sensor mounting bracket MS-GXL15-2, if the bracket is mounted close to the sensing part, the bracket itself gets sensed and the operation becomes unstable. Make sure to mount such that the mounting holes of the sensor and



those of the mounting bracket are in one horizontal straight line.

PRECAUTIONS FOR PROPER USE

Influence of surrounding metal

· When there is a metal near the sensor, keep the minimum separation distance specified below.

Front sensing type



\searrow	GXL-8F type	GXL-15FU type	GXL-15FLU type
Α	7 mm 0.276 in	8 mm 0.315 in	8 mm 0.315 in (Note)
В	8 mm 0.315 in	20 mm 0.787 in	30 mm 1.181 in
С	3 mm 0.118 in	7 mm 0.276 in	10 mm 0.394 in

Note: The GXL-15FLU type should be mounted on an insulator or a non-magnetic body. To mount it on a magnetic body, such as iron, use the enclosed aluminum sheet.



\setminus	GXL-8H type	GXL-15HU type	GXL-15HLU type
D	4 mm 0.157 in	6 mm 0.236 in	12 mm 0.472 in
Е	10 mm 0.394 in	20 mm 0.787 in	30 mm 1.181 in
F	3 mm 0.118 in	0 mm <mark>0 in</mark>	10 mm 0.394 in (Note)
G	3 mm 0.118 in	3 mm 0.118 in	10 mm 0.394 in

Note: When GXL-15HLU type is mounted on an insulator or a non-magnetic body, or seated on the enclosed aluminum sheet, the distance "F" can be zero.

Mutual interference prevention

· When two or more sensors are installed in parallel or face to face, keep the minimum separation distance specified below to avoid mutual interference.

GXL-8	Between "I" type	0 mm	15 mm
	and non "I" type	(Note 2)	0.591 in
type	Between two "I" types	18 mm	30 mm
	or two non "I" types	0.709 in	1.181 in
GXL-15FU	Between "I" type	0 mm	25 mm
	and non "I" type	(Note 2)	0.984 in
GXL-15HU	Between two "I" types	30 mm	60 mm
type	or two non "I" types	1.181 in	2.362 in
GXL-15FLU	Between "I" type	0 mm	25 mm
GXL-15HLU	and non "I" type	(Note 2)	0.984 in
type	Between two "I" types	75 mm	90 mm
	or two non "I" types	2.953 in	3.543 in

- Notes: 1) "I" in the model No. specifies the different frequency type.
 - 2) Close mounting is possible for up to two sensors. When mounting three sensors or more at an equal spacing, align the model with "I" and the model
 - without "I" alternately The minimum value of dimension "H" should be as given below.
 - GXL-8 type: 5 mm 0.1975 in. GXL-15FU/15HU type: 7.5 mm 0.295 in, GXL-15FLU/15HLU type: 30 mm 1.181 in



Front sensing

Top sensing



Refer to General precautions.

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	GXL-8 type	GXL-15FU type	GXL-15HU GXL-15FLU GXL-15HLU type
Iron	1	1	1
Stainless steel (SUS304)	0.82 approx.	0.74 approx.	0.75 approx.
Brass	0.59 approx.	0.53 approx.	0.53 approx.
Aluminum	0.57 approx.	0.52 approx.	0.51 approx.

Others

· Do not use during the initial transient time (50 ms) after the power supply is switched on.

Wiring

· The sensor must be connected to a power supply via a load. If the sensor is connected to a power supply without a load, the short-circuit protection makes the sensor inoperable. (The output stays in the OFF state and the indicator does not light up.) In this case, rectify by connecting the power supply via a load. Now, the sensor becomes operable. Further, take care that if the power supply is connected with reverse polarity without a load, the sensor will get damaged.



· For series connection (AND circuit) or parallel connection (OR circuit) of sensors, take care of the following.

Series connection (AND circuit)

Parallel connection (OR circuit)



load voltage VRL is given by: $V_{RL} = V_{CC} - n \times 3 (V)$ Vcc: supply voltage (24 V DC max) n: number of sensors Make sure that the load can work properly at this voltage.

When all sensors are in the OFF state, the load leakage current lcc is given by: lcc = n × 0.8 (mA) (n : number of sensors) Make sure that the load (I∟) can work properly Note : The load current in the ON state is given by : $I_{L} = \frac{Vcc - 3V}{Load resistance}$ (mA) GXL-8 type $3 \text{ mA} \times n \le l_{L} \le 70 \text{ mA}$ (n: number of sensors) turned ON **GXL-15 type** : ,3 mA × n ≤ l_L ≤ 100 mA n: number of sensors

Note: The output is generated normally even if the indicator does not light up properly.

turned ON . The residual voltage of the sensor is 3 V. Before connecting a relay at the load, take care of its actuation voltage. (Some 12 V relays may not be usable.)



FIBER SENSORS LASER SENSORS



LIGHT CURTAINS PRESSURE FLOW SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC CONTROL

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS MACHINE

SYSTEMS UV CURING SYSTEMS

Selectio Guide

Amplifie separat

GX-F/H

GL

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

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT

PRESSURE / FLOW SENSORS

PARTICULAR USE SENSORS

UV CURING SYSTEMS

GXL-15F type

PRECAUTIONS FOR PROPER USE

Use conditions to comply with CE Marking

• Following work must be done in case of using this product as a CE Marking (European standard EMC Directive)conforming product.

Ensure that the shield is connected to 0 V.



Note: The shield (piping, etc.) must be insulated.

DIMENSIONS (Unit: mm in)



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



GXL-15H type

Sensor



Note: Normally closed type have an operation indicator (red) instead of the 2-color indicator.



Note: Normally closed type have an operation indicator (red) instead of the 2-color indicator.

Refer to General precautions.

Sensor

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS

PRESSURE / FLOW SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC CONTROL DEVICES

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION

VISUALIZATION COMPONENTS

DIMENSIONS (Unit: mm in)

MS-GXL8-4 Sensor mounting bracket for GXL-8FU / GXL-8HU type (Accessory)

Mounting hole dimensions



Material: Stainless steel (SUS304)

1 pc. each of M3 (length 12 mm 0.472 in) truss head screw, nut, spring washer and plain washer is attached.

MS-GXL15-2 Sensor mounting bracket for **GXL-15F** type (Optional)



Material: Bracket ... Stainless steel (SUS304) Fixed rubber ... FKM (Fluorine rubber)

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

MS-GXL15 Sensor mounting bracket for **GXL-15** type (Optional)



Material: Cold rolled carbon steel (SPCC)



FA COMPONENTS
MACHINE VISION SYSTEMS
UV CURING SYSTEMS
Selection Guide
Amplifier Built-in

Amplifier

GX-F/H

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