

- Home
- Products
- Download
- Resource
- Support
- Sales Locations

Panasonic Industry > Automation Controls Top > FA Sensors & Components > Sensors > Inductive Proximity Sensors > GX-F15A-P

## Sensors

Inductive Proximity Sensors >

Rectangular-shaped Inductive Proximity Sensor GX-F/H >

**GX-F15A-P**

Fiber Sensors >

Photoelectric Sensors / Laser Sensors >

Light Curtains / Safety Components >

Area Sensors >

Micro Photoelectric Sensors >

Particular Use Sensors >

Sensor Options >

Wire-Saving Systems >

Configuration examples of IO-Link compatible devices >

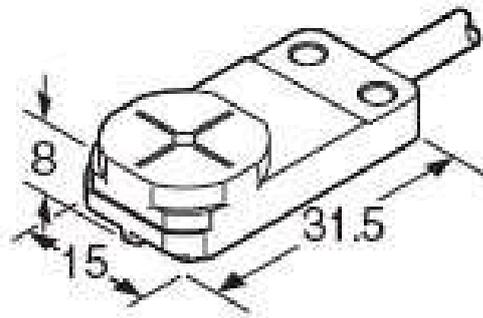
# GX-F15A-P | Rectangular-shaped Inductive Proximity Sensor GX-F/H

Download

Catalog/  
Datasheet

CAD

Manual



\*Photo may vary from actual product.



**Contact Us**

**Technical Inquiries,  
Purchase Support &  
Additional Assistance**

Technical inquiry

Business inquiry

Other inquiry

Product Number	GX-F15A-P
Number	GX-F15A-P
Product	Rectangular-shaped Inductive Proximity Sensor
Details	PNP output
Product Name	<a href="#">Rectangular-shaped Inductive Proximity Sensor GX-</a>

**Contact Us**

Technical inquiry      Business inquiry

Other inquiry

**Spec  
Detail**



**Accessories  
(Option)**



As of April 26, 2025 (JST)

\*Specifications and design of the products are subject to change without notice for the product improvement.

## Spec Detail

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	GX-F15A-P
Part Number	GX-F15A-P
Products Name	Rectangular-shaped Inductive Proximity Sensor



Item	Specifications
Product details	PNP output
The price of the product	Please contact our office
Max. operation distance	5 mm <b>0.197 in</b> plus or minus 8 % (Note) The maximum operation distance stands for the maximum distance for which the sensor can detect the standard sensing object.
Stable sensing range	0 to 4.2 mm <b>0 to 0.165 in</b> (Note) 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.
Standard sensing object	Iron sheet 20 × 20 × t 1 mm <b>0.787 × 0.787 × t 0.039 in</b>
Applicable regulations and certifications	CE Marking (EMC Directive, RoHS Directive), UKCA Marking (EMC Regulations, RoHS Regulations)
Hysteresis	20 % or less of operation 



Item	Specifications
	distance(with standard sensing object)
Repeatability	Along sensing axis, perpendicular to sensing axis: 0.04 mm 0.002 in or less
Supply voltage	12 to 24 V DC +10/-15 % Ripple P-P 10 % or less
Current consumption	15 mA or less
Output	PNP open-collector transistor - Maximum source current: 100 mA - Applied voltage: 30 V DC or less(between output and +V) - Residual voltage: 2 V or less (at 100 mA source current)
Output:Output operation	Normally open
Output:Utilization category	DC-12 or DC-13
Max. response frequency	250 Hz
Operation indicator	Orange LED(lights up when the output is ON)
Protection	IP68 (IEC), IP68g (JEM) (Note) Panasonic Electric Works SUNX's IP68 test method 1. Immerse at 0 m below 0 °C +32 water surface



Item	Specifications
	<p>leave for 30 min. Then, immerse at 0 m below +70 °C +158 °F water surface and leave for 30 min.</p> <p>2. Regard the heat shock test in 1 as one cycle and perform 20 cycles.</p> <p>3. Leave in water at a depth of 1 m 3.281 ft in water for 500 hours.</p> <p>4. After tests 1 to 3, insulation resistance, voltage withstandability, current consumption, and sensing ranges must meet the standard values.</p> <p>(Note) If using the sensor in an environment where cutting oil droplets splatter, the sensor may be deteriorated due to added substances in the oil.</p>
Ambient temperature	-25 to +70 °C -13 to +158 °F , Storage: -40 to +85 °C - 40 to +185 ※
Ambient humidity	45 to 85 % RH, Storage: 35 to 95 % RH
Voltage withstandability	1,000 V AC for one min. between all supply termin  connected



Item	Specifications
	together and enclosure
Insulation resistance	50 MΩ , or more, with 500 V DC megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 500 Hz frequency, 3 mm 0.118 in double amplitude (Max. 20 G) in X, Y and Z directions for two hours each
Shock resistance	10,000 m/s <sup>2</sup> acceleration (1,000 G approx.) in X, Y and Z directions three times each
Sensing range variation:Temperature characteristics	Over ambient temperature range -25 to +70 °C -13 to +158 °F : Within plus or minus 8 % of sensing range at +23degrees +73.4degrees Fahrenheit .
Sensing range variation:Voltage characteristics	Within plus or minus 2 % for +10/-15 % fluctuation of the supply voltage
Material	Enclosure: PBT Indicator part: Polycarbonate / Polyester



Item	Specifications
Cable	0.15 mm <sup>2</sup> 3-core oil, heat and cold resistant cabtyre cable, 1 m <a href="#">3.281 ft</a> long
Cable extension	Extension up to total 100 m 328.084 ft is possible with 0.3 mm <sup>2</sup> , or more, cable.
Net weight	20 g approx.

## Accessories (Option)

	Product number	Part number	Product	D
	<a href="#">MS-GXL15</a>	MS-GXL15	-	-

### Recently checked products

### Recently checked product numbers

- GX-F15A | Rectangular-shaped Inductive Proximity Sensor GX-F/H >
- GX-F12B-P | Rectangular-shaped Inductive Proximity Sensor GX-F/H >
- GX-F12B | Rectangular-shaped Inductive Proximity Sensor GX-F/H >
- GX-F12A-P | Rectangular-shaped Inductive Proximity Sensor GX-F/H >
- GX-F12A | Rectangular-shaped Inductive Proximity Sensor GX-F/H >



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## Control Components & Electronic Device Products Technical Support

Relays, Couplers, Connectors, Switches, and Other Control Components & Electronic Device Products

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## FA Sensors & Components, Motors Technical Support

FA Sensors, PLC ,Eco Power Meters, Times, Counters, Limit Switches and Other FA Sensors & Components

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## Motors Technical Support

Motors for FA & Industrial Application, Motors for Appliance & Automotive

Contact Us

## Guidelines for Ordering and Usage

Requests to customers (FA Sensors & Components [Excluding motors])

Requests to customers (Dedicated to industrial motors)

Components & Devices



ys / Couplers

FA Sensors & Components

Fiber Sensors

Sensor Options

Static Control Devices

Motors for FA & Industrial Application



Connectors	Photoelectric	Wire-Saving	Laser Markers /	AC Servo
Switches	Sensors / Laser	Systems	2D Code	Motors for HVAC &
Encoders /	Sensors	Programmable	Readers	Automotive
Potentiometers	Micro	Controllers /	Machine Vision	
Transparent	Photoelectric	Motion	System	
Conductive Film	Sensors	Controller	Energy	
Cooling Fan	Light Curtains /	Human	Management	
	Safety	Machine	Solutions	
	Components	Interface		
	Area Sensors	Pressure		
	Inductive	Sensors / Flow		
	Proximity	Sensors		
	Sensors	Measurement		
	Particular Use	Sensors		
	Sensors			

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