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GXL-8FU-R | Micro-size Inductive Proximity Sensor GXL



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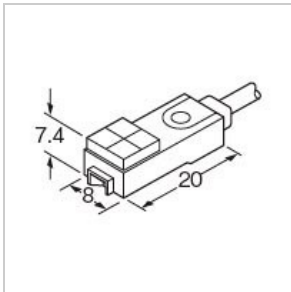


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*Photo may vary from actual product.

RoHS compliant

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Product Number	GXL-8FU-R
Part Number	GXL-8FU-R
Product	Micro-size Inductive Proximity Sensor
Details	Flexible cable type
Product name	Micro-size Inductive Proximity Sensor GXL

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FAQ

As of July 16, 2018

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

Spec Detail

Item	Specifications
Product Number	GXL-8FU-R
Part Number	GXL-8FU-R
CE marking directive compliance	EMC Directive, RoHS Directive
Max. operation distance	2.5 mm 0.098 in plus or minus 20% (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 1.8 mm 0 to 0.071 in (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 15 × 15 × t 1 mm 0.591 × 0.591 × t 0.039 in
Hysteresis	20 % or less of operation 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 plus or minus 10 % Ripple P-P 10 % or less
Current consumption	0.8 mA or less (Note) It is the leakage current when the output is in the OFF state.
Output	Non-contact DC 2-wire type - Load current: 3 to 70 mA (Note 1) - Residual voltage: 3 V or less (Note 2) (Note 1) The maximum load current varies with the ambient temperature. (Note 2) When the cable is extended, the residual voltage becomes larger

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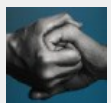
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	according to the resistance of the cable. The residual voltage of 5 m 16.404 ft cable length type increases by +0.1 V.
Output:Utilization category	DC-12 or DC-13
Output:Short-circuit protection	Incorporated
Max. response frequency	1 kHz
2-color indicator	Lights up in green under stable sensing condition Lights up in red under unstable sensing condition
Environmental resistance:Pollution degree	3 (Industrial environment)
Protection	IP67 (IEC), IP67 g (JEM) (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. Please check the resistivity of the sensor against the cutting oil you are using beforehand.)
Ambient temperature	-25 to +70 °C -13 to +158 F , Storage: -30 to +80 °C -22 to +176 F
Ambient humidity	45 to 85 % RH, Storage: 35 to 95 % RH
Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance	50 MΩ , or more, with 250 V DC megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 55 Hz frequency, 1.5 mm 0.059 in double amplitude in X, Y and Z directions for two hours each
Shock resistance	1,000 m/s ² acceleration (100 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+15-10 % of sensing range at +20 °C +68 F
Sensing range variation:Voltage characteristics	Within plus or minus 2 % for plus or minus 10 % fluctuation of the supply voltage
Material	Enclosure: PBT Indicator part: Polyarylate
Net weight	Net weight: 12 g approx.
Accessories	MS-GXL8-4(Sensor mounting bracket): 1 set

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Accessories (Option)

		
Product Number CN-13	Product Number CN-13-C1	Product Number CN-13-C3
Part Number CN-13	Part Number CN-13-C1	Part Number CN-13-C3
Product name Connector	Product name Connector-attached cable	Product name Connector-attached cable

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