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EX-L211-P-C5 | Amplifier Built-in Ultra-compact Laser Sensor EX-L200

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*Photo may vary from actual product.

RoHS compliant

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Product Number	EX-L211-P-C5
Part Number	EX-L211-P-C5
Product	Amplifier Built-in Ultra-compact Laser Sensor
Details	Thru-beam type
Product name	Amplifier Built-in Ultra-compact Laser Sensor EX-L200

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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	EX-L211-P-C5
Part Number	EX-L211-P-C5
CE marking directive compliance	EMC Directive, RoHS Directive
Sensing range	1 m 3.281 ft
Emission spot size (Typical)	Approx. 6 × 4 mm 0.236 × 0.157 in (vertical × horizontal) (at a sensing distance of 1 m)
Sensing object	Opaque object of ø2 mm ø0.079 in or more
Minimum sensing object (Typical)	Opaque object of ø0.3 mm ø0.012 in (Note)Typical values when the sensitivity adjuster is optimally adjusted.
Repeatability	Perpendicular to sensing axis: 0.05 mm 0.0020 in or less
Repeatability (Typical)(perpendicular to sensing axis)	0.01 mm 0.0004 in or less (all area) (Note)Typical values when the sensitivity adjuster is optimally adjusted.
Supply voltage	12 to 24 V DC plus or minus 10 % Ripple P-P 10 % or less
Current consumption	Emitter: 10 mA or less Receiver: 10 mA or less
	PNP open-collector transistor - Maximum source current: 50 mA




Output	- Applied voltage: 26.4 V DC or less (between output and +V) - Residual voltage: 2 V or less (at 50 mA source current), 1 V or less (at 16 mA source current)
Output:Output operation	Light-ON / Dark-ON selectable by the output operation switching input
Output:Short-circuit protection	Incorporated (short-circuit protection / inverse polarity protection)
Response time	0.5 ms or less
Operation indicator	Orange LED (lights up when the output is ON) (incorporated on the receiver for thru-beam type)
Stability indicator	Green LED (lights up under stable light received condition or stable dark condition) (incorporated on the receiver for thru-beam type)
Power indicator	Green LED (lights up when the power is ON) (incorporated on the emitter)
Sensitivity adjuster	Continuously variable adjuster (incorporated on the receiver)
Protection	IP67 (IEC)
Ambient temperature	-10 to +55 °C +14 to +131 F (No dew condensation or no icing condition), Storage: -30 to +70 °C -22 to +158 F
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH
Ambient illuminance	Incandescent light: 3,000 lx or less at the light-receiving face
Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance	20 MOhm , or more, with 250 V DC megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 500 Hz frequency, 1.5 mm 0.059 in double amplitude (10 G max.) in X, Y and Z directions for two hours each
Shock resistance	500 m/s ² acceleration (50 G approx.) in X, Y and Z directions three times each
Emitting element	Red semiconductor laser Class 1 (IEC / JIS/ FDA) (Note: This product complies with 21 CFR 1040.10 and 1040.11 Laser Notice No. 50, dated June 24, 2007, issued by CDRH (Center for Devices and Radiological Health) under the FDA (Food and Drug Administration) (Maximum output: 390 µW, Peak emission wavelength: 655 nm 0.026 mil)
Material	Enclosure: Polybutylene terephthalate, Front cover: Acrylic, Lens: Glass, Indicator part: Polyarylate
Cable	0.15 mm ² 4-core (emitter of a thru-beam type: 2-core) cabtyre cable, 2 m 6.562 ft long
Cable extension	Extension up to total 50 m 164.042 ft is possible with 0.3 mm ² , or more, cable (thru-beam type: Total 100 m 328.084 ft both emitter and receiver).
Accessory	MS-EXL2-2 (Mounting plate): 2 pcs.

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Accessories (Option)

		
Product Number CN-24A-C2	Product Number CN-24A-C5	Product Number CN-24AL-C2
Part Number CN-24A-C2	Part Number CN-24A-C5	Part Number CN-24AL-C2
Product name Cable	Product name Cable	Product name Cable

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