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 > Amplifier Built-in Ultra-compact Laser Sensor EX-L200 > Part Number > EX-L291-P-C5

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EX-L291-P-C5 | Amplifier Built-in Ultra-compact Laser Sensor EX-L200

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Product Number	EX-L291-P-C5 + Favorite
Part Number	EX-L291-P-C5
Product Name	Amplifier Built-in Ultra-compact Laser Sensor
Details	Retroreflective type
Series	Amplifier Built-in Ultra-compact Laser Sensor EX-L200
Features	Introducing ultra-compact amplifier built-in laser sensor

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As of July 29, 2015

Spec Detail

Item	Specifications
Product Number	EX-L291-P-C5
Part Number	EX-L291-P-C5
Features	Built-in amplifier in this size! Introducing world smallest* Amplifier Built-in Laser Sensor (* Based on research conducted by Panasonic Electric Works SUNX as of September 2010)
Sensing range	4 m 13.123 ft (Note) The sensing range is the value for RF-330 reflector. The sensing range represents the actual sensing range of the sensor.
Emission spot size (Typical)	6 x 4 mm 0.236 x 0.157 in (vertical x horizontal) (at a sensing distance of 1 m 3.281 ft) (Note) In the case sensing distance is 4 m 13.123 ft, the emission spot size is H 18 x W 10 mm H 0.709 x W 0.394 in (visual reference value).
Sensing object	Opaque translucent object of dia. 25 mm dia. 0.984 in or more
Minimum sensing object (Typical)	-
Hysteresis	20 % or less of operation distance
Repeatability	Perpendicular to sensing axis: 0.05 mm 0.0020 in or less
Repeatability (Typical)(perpendicular to sensing axis)	-
Supply voltage	12 to 24 V DC plus or minus 10 % Ripple P-P 10 % or less
Current consumption	15 mA or less

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Output	PNP open-collector transistor - Maximum source current: 50 mA - 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
Interference prevention function	Incorporated (Two sensors can be mounted close together.)
Sensitivity adjuster	Continuously variable adjuster
Protection	IP67 (IEC)
Ambient temperature	-10 to +55 degrees +14 to +131 degrees Fahrenheit (No dew condensation or no icing condition), Storage: -30 to +70 degrees -22 to +158 degrees Fahrenheit
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH
Ambient illuminance	Incandescent light: 3,000 lx 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 amplitude (10 G max.) in X, Y and Z directions for two hours each
Shock resistance	500 m/s2 acceleration (50 G approx.) in X, Y and Z directions for three times each
Emitting element	Red semiconductor laser class 1 (IEC / JIS), Class I (FDA) (Maximum output: 0.5mW, Peak emission wavelength: 655 nm 0.026 mil)
Material	Enclosure: Polybutylene terephthalate Front cover: Acrylic Lens: Glass
Cable	0.15 mm2 4-core (emitter of a thru-beam type: 2-core) cabtyre cable, 5 m 16.404 ft long
Accessory	RF-330 (Reflector): 1 pc. MS-EXL2-3 (Metal plate): 1 pc.

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Accessories (Option)

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Part Number: CN-24A-C2	Part Number: CN-24A-C5	Part Number: CN-24AL-C2
Series: Cable	Series: Cable	Series: Cable

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