Ratings

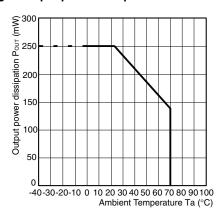
Item		Value
Detectable distance *		11 ± 2 mm (Black paper and OHP paper) 11± 8 mm (White paper)
Non-detectable distance*		20 mm (Black sponge) 45 mm (White paper)
Usable ambient illumination		3,000 Lx max. at Receiver surface (incandescent lamp, fluorescent lamp)
Vibration	Mechanical durability	10 to 150 Hz, Peak acceleration 10 G (100 m/s) 1.5 mm double amplitude for 2 hours each in X, Y, Z directions
Shock	Mechanical durability	300 m/s² (approximately 30 G) in X, Y, Z directions, respectively 3 times
Resistance to noise (normal mode)	Faulty operation	200 Vp, pulse width: 1 μs
	Break	350 Vp, pulse width: 1 μs
Resistance to noise (common mode)	Faulty operation	250 Vp, pulse width: 1 μs
	Break	500 Vp, pulse width: 1 μs
Terminal strength	Tensile strength	2 kgf (20 N), for 5 seconds
	Flexure strength	1 kgf (10 N), 1 time, for 5 seconds

^{*} If a background object is present, the object should be located at the specified non-detectable distance or further from the receiver surface. White paper: reflection factor of 90%

Black paper: reflection factor of 16%

Engineering Data (Reference value)

Fig 1. Output power dissipation vs. Ambient Temperature Characteristics



Safety Precautions

To ensure safe operation, be sure to read and follow the Instruction Manual provided with the Sensor.



This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



Precautions for Safe Use

Do not use the product with a voltage or current that exceeds the rated range.

Applying a voltage or current that is higher than the rated range may result in explosion or fire.

Do not miswire such as the polarity of the power supply voltage.

Otherwise the product may be damaged or it may burn.

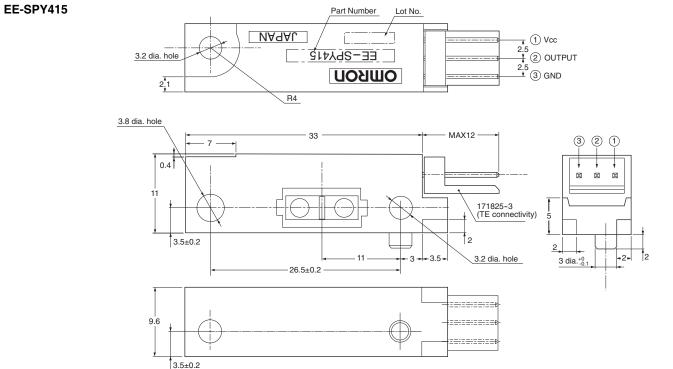
Do not short-circuit the load.

Otherwise explosion or burning may occur.

This product does not resist water. Do not use the product in places where water or oil may be sprayed onto the product.

Precautions for Correct Use

Do not use the product in atmospheres or environments that exceed product ratings. Dispose of this product as industrial waste. **Dimensions** (Unit: mm)



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