

Ingress Protection (IP) Ratings Guide

INGRESS PROTECTION MARKING







SOLID PROTECTION

No protection

	Protected against a solid
1	object greater than 50 mm
	such as a hand

	Protected against a solid
2	object greater than 12 mm
	such as a finger

Protected against a solid object greater than 2.5mm, such as a screwdriver

Protected against a solid object greater than 1 mm, such as most wires or

Dust protected. Prevents ingress of dust sufficient to cause harm.

Dust tight.

No ingress of dust

IEC.

The IP rating system is defined in international standard IEC 605029. IP ratings are used to classify and define ingress protection of electrical devices such as luminaires against solids and water.

WATER PROTECTION

Protected against vertical dripping water

Protected against vertical dripping water when tilted up to 15°.

Protected against spraying water at an angle of 60°.

Protected against splashes of water at any angle.

Protected against low pressue water jets from any direction.

Protected against high pressure water jets from any direction.

Protected against the effects of immersion in water between 15cm and

Protected against the effects of immersion in water deeper than 1m

Protected from close-range, powerful, high-temperature water jets