

INGRESS PROTECTION MARKING



SOLID PROTECTION

0		Non protected
1		Protected against a solid object greater than 50 mm, such as a hand.
2		Protected against a solid object greater than 12 mm, such as a finger.
3		Protected against a solid object greater than 2.5 mm, such as a screwdriver.
4		Protected against a solid object greater than 1 mm, such as a most screws and wires.
5		Dust protected. Prevents ingress of dust sufficient to cause harm.
6		Dust tight. no ingress of dust.



The IP rating system is defined in international standard IEC 605029. IP ratings are used to classify and define of ingress protection on electrical devices against solids and water. By defining a rating, the IP system ensures specific levels of overate when products are faced with varying elements.

WATER PROTECTION

0		Non protected
1		Protected against vertical dripping water. Limited liquid entry.
2		Protected against vertical dripping water when tilted up 15°. Limited liquid entry.
3		Protected against spraying water at an angle 60°. Limited liquid entry.
4		Protected against splashes of water at any angle. Limited liquid entry.
5		Water on all comers via a 6.3 mm (0.25") nozzle at a flow rate of 12.5 liters/min. at a pressure of 30kN/m2 for 3 minutes from a distance of 3 m. Limited liquid entry.
6		Water on all comers via a 12.5 mm (0.49") nozzle at a flow rate of 100 liters/min at a pressure of 100 kN/m2 for 3 minutes from a distance of 3 m. Limited liquid entry.
7		Under water up to 1 meter (3.28) for 30 minutes. Protected against the effects immersion of water between 15 cm and 1 m for 30 minutes.
8		Protected against the effects immersion of water under pressure for long periods.
9		Protected from close-range, high-temperature powerful water jets 1500 psi.

