

IP RATING GUIDE

IP (Ingress Protection) ratings are used to define the degree of protection against the intrusion of solid objects and water into enclosures. A number replaced by an X indicates that there is no specified rating for that protection.

- The first digit indicates the degree of intrusion from solids and dust.
- The second digit indicates the degree of protection from water intrusion.

0	NO PROTECTION SPECIFIED	
1	> 50mm	Protection from solid objects, such as a hand
2	> 12.5mm	Protection from small objects, such as a finger
3	> 2.5mm	Protection from smaller objects, such as tools
4	> 1mm	Protection from very small objects, such as screws, wires, insects
5	Dust Resistant	Limited ingress of dust permitted that does not interfere with operability
6	Dust Tight	No ingress of dust permitted

0	NO PROTECTION SPECIFIED	
1	Dripping Water	Protection from vertical falling drops of water, limited ingress permitted
2	Dripping Water 15°	Protection from vertical drops of water with enclosure at 15° from vertical, limited ingress permitted
3	Spraying Water	Protection from sprays of water at any angle up to 60° from vertical, limited ingress permitted
4	Splashing Water	Protection from water splashes from any direction, limited ingress permitted
5	Low Pressure Water Jets	Protection from jets of water from any direction, limited ingress permitted
6	High Pressure Water Jets	Protection from strong jets of water from any direction, limited ingress permitted
7	Immersion 1m	Watertight from immersion in water up to 1meter for 30 min
8	Immersion > 1m	Watertight from continuous immersion in water under pressure for long periods

EXAMPLE



Need to uncover potential production issues before releasing to production?
 If you have a product that has rigorous ingress protection or ruggedization requirements, learn about our [intensive preliminary drop testing and water testing processes](#) to help you avoid production issues.