

IP RATINGS EXPLAINED

The IP Rating (International Protection or Ingress Protection) is a 2 digit code that declares how well a product is sealed.

IP ratings are defined in international standard EN 60529.

The first number refers to protection against solid objects:

#	Object Size	Example
0	-	No protection against contact and ingress of objects.
1	>50 mm	Protection against large objects.
2	>12.5 mm	Protection against fingers.
3	>2.5 mm	Protection against tools.
4	>1 mm	Protection against wires.
5	Dust	Dustproof: Dust may enter, but not enough to interfere with product operation.
6	Dust	Dust-tight: No dust may enter

The second number refers to protection against liquids:

#	Protection
0	No protection against liquid intrusion.
1	Protected against vertical dripping water.
2	Protected against water dripping at an angle.
3	Protected against spraying water.
4	Protected against splashing water.
5	Protected against water jets.
6	Protected against powerful water jets.
7	Protected against immersion (up to 1m / 3ft)
8	Protected against immersion (beyond 1m / 3ft)