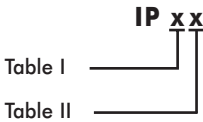


IP RATINGS

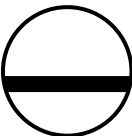



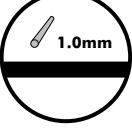
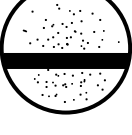
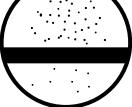
Degree of protection to BS EN60529/DIN 0470

IP Ratings Guide

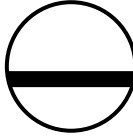


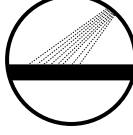
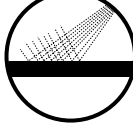
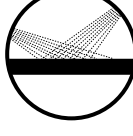
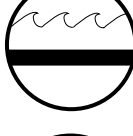
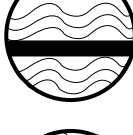

The IP classification system designates the degree of protection provided by an enclosure against solid objects or water ingress. Table I shows degrees of protection against solid objects, Table II shows degrees of protection against water.



**Table I (1st characteristic numeral)**  
Degree of Protection against solid objects

Digit	
0	 Non-protected
1	 Protected against a solid object greater than 50mm, such as a hand.
2	 Protected against a solid object greater than 12.5mm, such as a finger.
3	 Protected against a solid object greater than 2.5mm, such as wire or a tool.
4	 Protected against a solid object greater than 1.0mm, such as wire or thin strips.
5	 Dust-protected. Prevents ingress of dust sufficient to cause harm.
6	 Dust tight. No ingress of dust.

**Table II (2nd characteristic numeral)**  
Degree of Protection against water

Digit	
0	 Non-protected
1	 Protected against dripping water.
2	 Protected against dripping water when tilted up to 15°.
3	 Protected against spraying water at an angle of up to 60°.
4	 Protected against splashing water from any direction.
5	 Protected against jets of water from any direction.
6	 Protected against heavy seas or powerful jets of water. Prevents ingress sufficient to cause harm.
7	 Protected against the effects of temporary immersion in water.
8	 Protected against the effects of continuous immersion in water.