

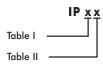
#### IP RATINGS

# Degree of protection to IEC 60529 BS EN60529

## **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.



4

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  $60^{\circ}$ .



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.





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Protected against very high pressure, high temperature wash-down test.