## **IP** ratings

The IP rating (International Protection, IEC 60529) is a code which specifies what external influences the equipment is designed for. The IP rating is made up of two digits and can contain an additional letter if the actual personal protection against direct contact with live parts is better than that indicated by the first digit.

## First digit:

The first digit of the IP code indicates the equipment's protection against penetration by solid objects and protection of personnel against direct contact with live parts.





Protected against penetration by solid objects with a diameter of 50mm or more. Protected against direct contact with the back of the hand (involuntary contact).

Protected against penetration by solid objects with a diameter of 12.5mm or more. Protected against direct contact with the fingers.

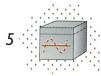


2

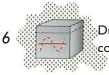
Protected against penetration by solid objects with a diameter of 2.5mm or more. Protected against direct contact with a  $\emptyset$  2.5mm tool.



Protected against penetration by solid objects with a diameter of more than Imm. Protected against direct contact with a  $\emptyset$  Imm wire.



Protected against dust (no harmful objects). Protected against direct contact with a  $\emptyset$  Imm wire.



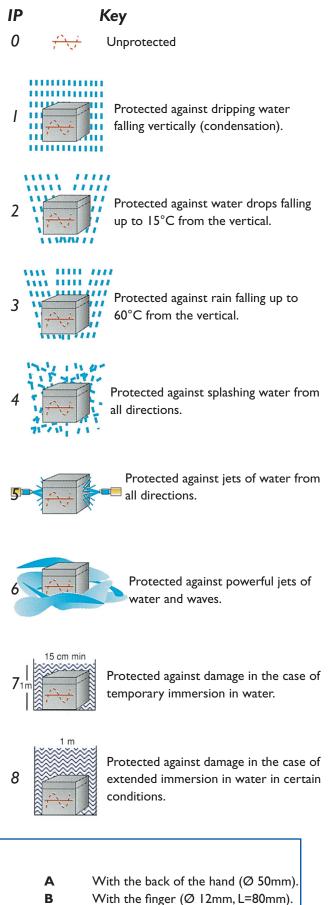
Dustproof. Protected against direct contact with a Ø Imm wire.

## Additional letters

An additional letter indicates the protection of personnel against direct contact with live parts (where the actual personal protection against direct contact with live parts is better than that indicated by the first digit).

## Second digit:

The second digit of the IP code indicates the equipment's protection against penetration by water resulting in damage.



- With the inger (© 12mm, L=60mm
- With a Ø 2.5mm, L=100mm tool.
- With a  $\emptyset$  1 mm, L=100mm wire.

С

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