

## Sommario

<b>IP Protection:</b> .....	<b>3</b>
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## IP Protection:

The IP code ( International Protection ) is a convention defined in the EN 60529 ( Adopted by the CEI as a standard CEI 70-1 ) to identify the degree of protection of electrical and electronic equipment wrappers ( rated voltage up to 72.5 kV ) against the penetration of external agents of a solid or liquid nature. The IP prefix are made to follow two digits :

The first identifies protection against contact of external solids and against access to dangerous parts

- IP0X = no protection against external solid bodies ;
- IP1X = casing protected against solid bodies larger than 50mm and against access with the back of the hand;
- IP2X = casing protected against solid bodies larger than 12mm and against access with a finger;
- IP3X = casing protected against solid bodies larger than 2.5mm and against access with a tool;
- IP4X = casing protected against solid bodies larger than 1mm and against access with a wire;
- IP5X = casing protected against dust ( and against access with a wire );
- IP6X = casing completely protected against dust ( and against access with a wire ).

The second digit identifies the protection against the penetration of liquids :

- IPX0 = no protection;
- IPX1 = casing protected against vertical fall of water droplets;
- IPX2 = casing protected against fall of drops with inclination less than 15 °;
- IPX3 = casing protected against rain;
- IPX4 = casing protected against splashing water;
- IPX5 = casing protected against water jets;
- IPX6 = casing protected against waves;
- IPX7 = casing protected against immersion effects;
- IPX8 = casing protected against the effects of drowning.

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