

## DEGREES OF PROTECTION (IP CODE)

According to EN 60529

The IP international protection code consists of two digits (e.g. P67). The first digit stands for resistance to ingress of solid objects and dust, denominated from 0 to 6. The second digit stands for resistance against ingress of water and is denominated from 0 to 8. The IP international protection index digits are shown in the following table:

| 1 <sup>st</sup> Digit<br>Protection against ingress of solid objects |  | IP <span style="border: 1px solid black; padding: 2px;">6</span> <span style="border: 1px solid black; padding: 2px;">7</span> | 2 <sup>nd</sup> Digit<br>Protection against ingress of water           |              |
|--|--|--|--|--------------|
| <b>IP 0X</b>   |  | Non protected  | Non protected  | <b>IP X0</b> |
| <b>IP 1X</b>   |  | Protected against solid foreign objects of 50mm and greater (e.g. accidental touch by hands)                                   | Protected against vertically falling drops of water                    | <b>IP X1</b> |
| <b>IP 2X</b>   |  | Protected against solid foreign objects of 12.5mm and greater (e.g. contact with finger)                                       | Protected against direct sprays of water up to 15° from vertical       | <b>IP X2</b> |
| <b>IP 3X</b>   |  | Protected against solid foreign objects over 2.5mm (e.g. tools, cables)  | Protected against direct sprays of water up to 60° from vertical       | <b>IP X3</b> |
| <b>IP 4X</b>   |  | Protected against solid foreign objects over 1.0mm (e.g. thin tools, small wires)  | Protected against water splashing from all directions                  | <b>IP X4</b> |
| <b>IP 5X</b>   |  | Protected against dust (permeable only to visible particles)   | Protected against low pressure jets of water from all directions       | <b>IP X5</b> |
| <b>IP 6X</b>   |  | Dust - tight   | Protected against powerful pressure jets of water from all directions  | <b>IP X6</b> |
|  |  |  | Protected against the effect of immersion in water between 15cm and 1m | <b>IP X7</b> |
|  |  |  | Protected against long periods of immersion in water                   | <b>IP X8</b> |