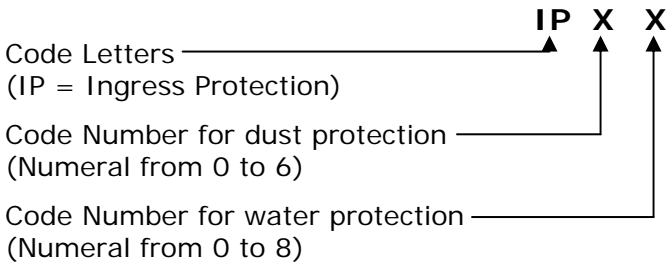



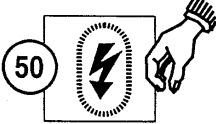
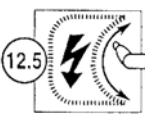
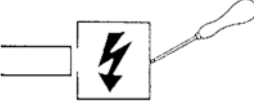
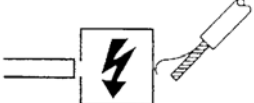
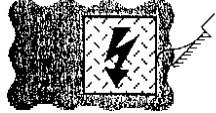
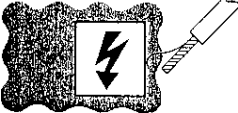
IP Rating System






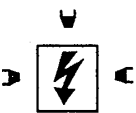
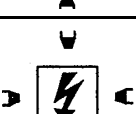
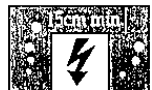

Description

The code letters IP of BS EN 60529:1989 refer to Ingress Protection as applicable to enclosure or electrical equipment with a rated voltage not exceeding 72.5kV.

The Code and Rating System



| First Numeral | |
|--|---|
| Protection against ingress of solid foreign bodies | |
| IP Requirements | Example |
| 0 No Protection |  |
| 1 Full penetration of 50mm diameter sphere not allowed and shall have adequate clearance from hazardous parts. Contact with hazardous parts not permitted. |  |
| 2 Full penetration of 12.5mm diameter sphere not allowed. The jointed finger test shall have adequate clearance from hazardous parts. |  |
| 3 The access probe of 2.5mm diameter shall not penetrate. |  |
| 4 The access probe of 1.0mm diameter shall not penetrate. |  |
| 5 Limited ingress of dust permitted (no harmful deposit) |  |
| 6 Totally protected against ingress of dust. |  |

| Second Numeral | |
|---|---|
| Protection against harmful ingress of water | |
| IP Requirements | Example |
| 0 No Protection |  |
| 1 Protected against vertical falling drops of water. Limited ingress permitted. |  |
| 2 Protected against falling drops of water with enclosure tilted 15 from the vertical. Limited ingress permitted. |  |
| 3 Protected against sprays to 60 from vertical. Limited ingress permitted. |  |
| 4 Protected against water splash from all directions. Limited ingress permitted. |  |
| 5 Protected against low pressure jets of water from all directions. Limited ingress permitted. |  |
| 6 Protected against strong jets of water. |  |
| 7 Protected against the effects of immersion between 15cm and 1m. |  |
| 8 Protected against longer periods of immersion under pressure. |  |