

# ingress protection (IP)

> weblink > INGP



The ingress protection (IP) rating denotes the protection against solid foreign objects and harmful ingress of water provided by the luminaire enclosure. If no code is marked, the luminaire is deemed to be IP20.

**First Numeral**

Protection against ingress of solid foreign objects

| IP | Requirements                                                                                                                              |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|
| 0  | No protection.                                                                                                                            |
| 1  | Full penetration of 50mm sphere not allowed and shall have adequate clearance from hazardous. Contact with hazardous parts not permitted. |
| 2  | Full penetration of 12.5mm diameter sphere not allowed. The jointed finger shall have adequate clearance from hazardous parts.            |
| 3  | The access probe of 2.5mm diameter shall not penetrate.                                                                                   |
| 4  | The access probe of 1mm 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                                                                                                                |
|----|-----------------------------------------------------------------------------------------------------------------------------|
| 0  | No protection.                                                                                                              |
| 1  | Protected against vertically falling drops of water. Limited ingress permitted.                                             |
| 2  | Protected against vertically falling drops of water with enclosure tilted 15° from the vertical. Limited ingress permitted. |
| 3  | Protected against sprays to 60° from the vertical. Limited ingress permitted.                                               |
| 4  | Protected against water splashed 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.                                                               |