

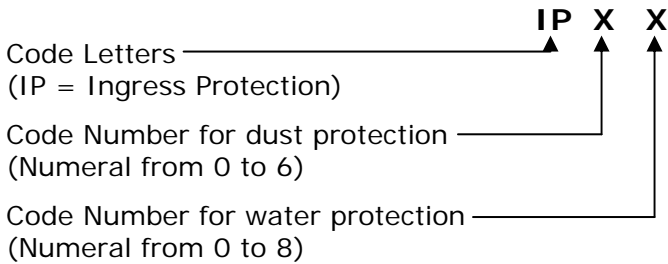


IP Rating System

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.	