

Explanation of IP Ratings.

For example IP 67 would be: Totally protected against ingress of dust & protected against the effects of immersion between 15cm and 1m.

First Numeral

Protection against ingress of solid foreign objects.

Second Numeral

Protection against harmful ingress of water

IP	Requirements	Example	IP	Requirements	Example
0	No protection		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.		1	Protected against vertically falling drops of water. Limited ingress permitted.	
2	Full penetration of 12.5mm diameter sphere not allowed. The jointed finger shall have adequate clearance from hazardous parts.		2	Protected against vertically falling drops of water with enclosure tilted 15° from the vertical. Limited ingress permitted.	
3	The access probe of 2.5mm diameter shall not penetrate.		3	Protected against sprays to 60° from the vertical - limited ingress permitted.	
4	The access probe of 1.0mm diameter shall not penetrate.		4	Protected against water splashed from all directions - limited ingress permitted.	
5	Limited ingress of dust permitted (no harmful deposit).		5	Protected against low-pressure jets of water from all directions - limited ingress permitted.	
6	Totally protected against ingress of dust.		6	Protected against strong jets of water.	
7	Totally protected against ingress of dust.		7	Protected against the effects of immersion between 15cm and 1m.	
8	Totally protected against ingress of dust.		8	Protected against longer periods of immersion under pressure.	