

## Ingress Protection Codes

The International Protection code, sometimes called the Ingress Protection code, classifies the protection given by an enclosure against the touching of live parts, contact with moving parts and protection against the ingress of solid bodies. It additionally specifies protection against the harmful ingress of liquids. Two digits are used to describe its protection rating, called the IP code.



First digit-Protection against solid objects		Second digit-Protection against liquids	
0.	No protection.	0.	No protection.
1.	Protection against large, sized bodies. eg hands.	1.	Protection against vertically falling drops of water.
2.	Protection against medium, sized bodies. eg fingers.	2.	Protection against drops of water up to 15 from the vertical (drip proof).
3.	Protection against small bodies, 2.5mm or greater eg tools, wire	3.	Protection against rain falling up to 60 from the vertical (rain proof).
4.	Protection against very small bodies, 1mm or greater	4.	Protection against splashed water from any angle (splash proof).
5.	Protection against harmful deposits of dust (dust proof).	5.	Protection against jets of water from any angle (jet proof).
6.	Complete protection against deposits of dust (dust tight).	6.	Protection against water from heavy seas. eg water tight for marine deck use.

		7.	Protected against immersion for a defined period.
		8.	Protected against immersion for an indefinite period.

Example. IP65 is dust tight and jet proof