

Ingress protection (IP) ratings guide

IP ratings are represented by combining the first and second digits of the below columns

1st numeral - solid foreign objects

0	No protection	
1	Protected against solid foreign objects of 50 mm Ø and greater	
2	Protected against solid foreign objects of 12,5 mm Ø and greater	
3	Protected against solid foreign objects of 2,5 mm Ø and greater	
4	Protected against solid foreign objects of 1,0 mm Ø and greater	
5	Dust-protected	
6	Dust-tight	

2nd numeral - water

0	No protection		-
1	Protected against vertically falling water drops		Vertically falling drops shall have no harmful effects
2	Protected against vertically falling water drops when enclosure tilted up to 15°		Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical
3	Protected against spraying water		Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects
4	Protected against splashing water		Water splashed against the enclosure from any direction shall have no harmful effects
5	Protected against water jets		Water projected in jets against the enclosure from any directions shall have no harmful effects
6	Protected against powerful water jets		Water projected in powerful jets against the enclosure from any direction shall have no harmful effects
7	Protected against the effects of temporary immersion in water		Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time
8	Protected against the effects of continuous immersion in water		Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7
9	Protected against high pressure and temperature water jets		Water projected at high pressure and high temperature against the enclosure from any direction shall not have harmful effects

Example:

