

What is the Protection Index?

The Protection Index (IP) is an international standard. This index classifies the level of protection offered by equipment against intrusions by solids (e.g. dust) and liquids (e.g. water, oil).

What are the different levels of protection within this index?

The first number indicates protection against solid objects:

X = Not measured	-
0 = Not protected	-
1 = Protected against solids ≥ 50 mm in diameter	
2 = Protected against solids ≥ 12.5 mm in diameter	
3 = Protected against solids ≥ 2.5 mm in diameter	
4 = Protected against solids ≥ 1 mm in diameter	
5 = Protected against dust (limited ingress, no harmful deposits)	
6 = Completely protected against dust	

The second number indicates protection against liquids:

X = Not measured	-
0 = Not protected	-
1 = Protected against vertically falling water drops	
2 = Protected against water drops (15° from vertical)	
3 = Protected against rain (60° from vertical)	
4 = Protected against sprayed water	
5 = Protected against jets of water	
6 = Protected against forceful hose-projected water	
7 = Temporary immersion (-1 meter for 30 minutes)	
8 = Prolonged immersion (deeper than 1 meter for period defined by manufacturer)	

How do you read this index?

Example: IP 67

- The first number indicates protection against solid objects
 - The second number indicates protection against liquids
- The IP 67 notation therefore corresponds to a completely dustproof product that is protected against the effects of immersion in liquid

Note: when a criterion has not been tested, the number is replaced by the letter "X" Example: IP X6 indicates that the material has not been tested against solid objects