

Definition of Sealing Protection Levels

Vishay



PROTECTION LEVELS	
FIRST DIGIT	SECOND DIGIT
PROTECTION AGAINST SOLID SUBSTANCES	PROTECTION AGAINST LIQUIDS
IP Tests	IP Tests
0 Without Protection	0 Without Protection
1 Protected against solid substances (size > 50mm)	1 Protected against water drops (condensation)
2 Protected against solid substances (size > 12mm)	2 Protected against water drops from up to 15 feet
3 Protected against solid substances (size > 2.5 mm)	3 Protected against water drops up to 60 feet
4 Protected against solid substances (size > 1 mm)	4 Protected against water drops above 60 feet
5 Protected against dust (> 0.1mm < 1mm)	5 Protected against splashes of water in all directions
6 Fully protected against dust	6 Protected against projections of water in all directions
	7 Protected against action of immersion < 15 cm and water jet pressure all directions
	8 Protected against long time action of immersion < 1 meter and water jet pressure in all directions

NOTE: To symbolize the protection levels, we use ip letters followed by 2 digits.