














IP (Ingress Protection) RATING CHART

SOLIDS		LIQUIDS				
1	Protected against solid objects greater than 50mm. Resists ingress from large surface of the body, but not deliberate ingress such as fingers.		1	Protected against water dripping or falling in small drops. Limited ingress protection.		
2	Protected against solid objects greater than 12mm, such as finger ingress or small tools.		2	Protected against water spray at small angle (up to 15 degrees). Limited ingress protection.		
3	Protected against solid objects greater than 2.5mm, such as thick wires or medium and large tools.		3	Protected against water spray in any direction up to 60 degrees. Limited ingress protection for up to 3 minutes.		
4	Protected against solid objects greater than 1.0mm, which can include wires, screws and small components.		4	Protected against water sprays, splash or small spills from all directions. Limited ingress protection for up to 3 minutes.		
5	Fully protected from contact. Dust ingress protection is limited to small quantities for short time durations.		5	Protected against low-pressure water jets from nozzles up to 6.3mm from any direction. Limited ingress OK.		
6	Full protection from contact. Fully protected against dust and small particles (such as flour) ingress.		6	Protected against high-pressure water jets from nozzles up to 12.5mm from any direction. Limited ingress OK.		
Solid Level Protection ←		Liquid Level Protection ↑		7	Protected against immersion in water up to one meter for less than 30 minutes. No ingress possible under one meter.	
→ Ingress Protection				8	Protected against full immersion under water beyond one meter for any time duration according to manufacturer specifications. Product could be hermetically sealed or permit ingress with no harmful effect.	