

IP (Ingress Protection) Rating Guide



0	No protection	No protection ("x")	0	No protection ("x")
1	Protected against contact with large areas of the body (e.g. back of hand)	Protected against solid objects up to 50mm ³	1	Protection against vertically falling drops of water (e.g. condensation)
2	Protected against contact with fingers	Protected against solid objects up to 12mm diameter	2	Protection against direct sprays of water up to 15 degrees from vertical
3	Protected against tools and wires over 2.5mm in diameter	Protected against solid objects up to 2.5mm diameter	3	Protection against direct sprays of water up to 60 degrees from vertical
4	Protected against tools and wires over 1mm in diameter	Protected against solid objects up to 1mm diameter	4	Protection against water sprayed from all directions, limited ingress permitted
5	Protected against tools and wires over 1mm in diameter	Protected against dust: limited ingress (i.e. no harmful deposit)	5	Protected against low-pressure jets of water from all directions, limited ingress permitted
6	Protected against tools and wires over 1mm in diameter	Totally protected against dust	6	Protected against strong jets of water from all directions, limited ingress permitted (e.g. a ship's deck)
Rating example:			7	Protected against the effect of "temporary" immersion between 15cm and 1m
<div style="border: 1px solid black; padding: 10px; display: inline-block;"> IP 6 5 </div>			8	Protected against long period of immersion under pressure
			9	Protected against high pressure, high temperature jets of water from multiple directions*

* IP69K is defined in DIN 40050-9