



## What is IP65? Water-Dust IP Resistant Explanation.

EE201003HC001

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Behind the IP of first number stand for level of protection against solid object, and second number is show level of protection against liquids.

According to EN 60529, The level of IP as below.

E. G. IP65 is

Protection against solid objects : **6.**

**Totally protected against dust.**








Protection against liquids : **5.**










Protected against low pressure jets if water from all directions, limited ingress permitted.

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First Number (Protection against solid objects)	
0	1
	
No protection	Protected against solids objects over 50mm (e. g. accidental touch by hands)
2	3
	
Protected against solids object over 12mm (e. g. fingers)	Protected against solids objects over 2.5mm (e. g. tools and wires)
4	5
	
Protected against solids objects over 1mm (e. g. tool, wires and small wires)	Protected against dust, limited ingress (no harmful deposit)
6	
	
Totally protected against dust	

Second number (Protection against liquids)		
0	1	
		
No Protection	Protected against vertically falling drops of water	
2	3	
		
Protected against direct sprays up to 15 degree from the vertical	Protected against direct sprays up to 60 degree from the vertical	
4	5	
		
Protected against sprays from all directions, limited ingress permitted.	Protected against low pressure jets if water from all directions, limited ingress permitted.	
6	7	8
		
Protected against strong jets of water	Protected against the effects of temporary immersion between 15cm and 1m. Duration of test 30 minutes.	Protected against long periods of immersion under pressure.



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