

DEGREES OF PROTECTION (IP CODE)

According to EN 60529

The IP international protection code consists of two digits (e.g. IP67). The first digit stands for resistance to ingress of solid objects and dust, denominated from 0 to 6. The second digit stands for resistance against ingress of water and is denominated from 0 to 8. The IP international protection index digits are shown in the following table:

1 st Digit Protection against ingress of solid objects		IP 6 7	2 nd Digit Protection against ingress of water	
IP 0X		Non protected	Non protected	IP X0
IP 1X		Protected against solid foreign objects of 50mm and greater (e.g. accidental touch by hands)	Protected against vertically falling drops of water	IP X1
IP 2X		Protected against solid foreign objects of 12.5mm and greater (e.g. contact with finger)	Protected against direct sprays of water up to 15° from vertical	IP X2
IP 3X		Protected against solid foreign objects over 2.5mm (e.g. tools, cables)	Protected against direct sprays of water up to 60° from vertical	IP X3
IP 4X		Protected against solid foreign objects over 1.0mm (e.g. thin tools, small wires)	Protected against water splashing from all directions	IP X4
IP 5X		Protected against dust (permeable only to visible particles)	Protected against low pressure jets of water from all directions	IP X5
IP 6X		Dust - tight	Protected against powerful pressure jets of water from all directions	IP X6
			Protected against the effect of immersion in water between 15cm and 1m	IP X7
			Protected against long periods of immersion in water	IP X8