

CDN is often asked about splashproof versus waterproof and what our products are rated.

The International Electrotechnical Commission (IEC) has published a standard for rating mechanical casings and electrical enclosures based on their ability to protect their electronic components from intrusion by dust, accidental contact or water.

The *International Protection Marking* code (or *IP Code*) consists of the letters **IP** followed by two digits.

The first digit indicates the level of protection that the housing provides against solids.

The second digit indicates the level of protection that the housing provides against liquids.

IP12

International Protection

Second Digit: Liquids

First Digit: Solids

FIRST DIGIT: SOLIDS

LEVEL	EFFECTIVE AGAINST
X	No data available
0	No protection
1	Solids bigger than 50 mm (e.g. back of a hand)
2	Solids bigger than 12.5 mm (e.g. fingers)
3	Solids bigger than 2.5 mm (e.g. tools and wires)
4	Solids bigger than 1 mm (e.g. most wires, slender screws, large ants)
5	Dust protected – limited ingress, no harmful interference
6	Dust tight – no ingress

SECOND DIGIT: LIQUIDS

LEVEL	EFFECTIVE AGAINST
X	No data available
0	No protection
1	Dripping water (vertically falling drops)
2	Dripping water when enclosure tilted up to 15°
3	Spraying water any angle up to 60°
4	Splashing of water from any direction
5	Water jets (6.3mm nozzle) from any direction
6	Powerful water jets (12.5mm nozzle) from any direction
6K	Powerful water jets with increased pressure
7	Immersion, between 15 cm and 1 m (30 minutes)
8	Immersion, between 1 m and 3 m (conditions specified by manufacturer)
9K	Powerful high temperature water jets (close-range high pressure, high temperature spray downs)

2	3	4	5	6	7	8
DRIPPING	SPRAYING	SPLASHING	JETS	POWERFUL JETS	IMMERSION 15 cm to 1 m	IMMERSION 1 m to 3 m
SD1502		DT450X DTT450 TCT572 DTF572 INTP662 TMW1 Master Scales	INTP626X DTP572	DT572 DTQ450X Q2-450X DW2	DTTW572 DTL572 DTW450 DTW450L TCTW572 SD1110X SD2210X	SD1120 SD2220

