

## IP (Ingress Protection) Ratings

The **first number** indicates the degree of protection against solid foreign objects or dust. The **second number** indicates the degree of protection against water.

There is no rating of additional environmental conditions such as corrosion, icing, hail, oils or coolants as in NEMA.  
**Example: IP 65 is protected against dust and jets of water from any direction.**

<b>0</b>		Non-protected	<b>0</b>		Non-protected
<b>1</b>		Protected against a solid object greater than 50mm, such as a hand	<b>1</b>		Protected against water dripping vertically, such as condensation
<b>2</b>		Protected against a solid object greater than 12mm, such as a finger	<b>2</b>		Protected against dripping water when tilted up to 15°
<b>3</b>		Protected against a solid object greater than 2.5mm, such as a tool or wire	<b>3</b>		Protected against water spraying at an angle of up to 60°
<b>4</b>		Protected against a solid object greater than 1.0mm, such as wire or thin strips	<b>4</b>		Protected against water splashing from any direction
<b>5</b>		Dust-protected - prevents ingress of dust sufficient to cause harm	<b>5</b>		Protected against jets of water from any direction
<b>6</b>		Dust tight - no dust ingress	<b>6</b>		Protected against heavy seas or powerful jets of water - prevents ingress sufficient to cause harm
			<b>7</b>		Protected against harmful ingress of water when immersed between a depth of 150mm to 1 meter
			<b>8</b>		Protected against submersion - suitable for continuous immersion in water