

# GUIDE TO INGRESS PROTECTION

IP

## SOLID

<b>1</b>	Protected against solid objects over 50mm (ex. a hand)	
<b>2</b>	Protected against solid objects over 12mm (ex. a finger)	
<b>3</b>	Protected against solid objects over 2.5mm (ex. a screwdriver)	
<b>4</b>	Protected against solid objects over 1mm (ex. tools or wire)	
<b>5</b>	Protected against dust-limited ingress for 2-8 hours with no harmful deposit	
<b>6</b>	Complete protection against dust from enclosure	

## IP69K

Protected against dust ingress and high temperature, high pressure spray



## IP6K9K

Completely protected against dust ingress and close range high temperature, high pressure spray



## WATER

<b>1</b>	Protected against vertically falling drops of water	
<b>2</b>	Protected from vertical drops of water when tilted at 15°	
<b>3</b>	Protected from vertical water spray up to 60° (limit 3 minutes)	
<b>4</b>	Protected against splashes from all directions - limited ingress permitted	
<b>5</b>	Protected from water jets from all directions - causes no harmful effects	
<b>6</b>	Protected from powerful water jets from all directions - no harmful effects	
<b>7</b>	Water immersion protection between 15 cm and 1 m for up to 30 min	
<b>8</b>	Water immersion protection for long periods of time under pressure	
<b>9K</b>	Protection against close range, high pressure and high temperature spray	