**IP (Ingress Protection) Ratings Guide**

**SOLIDS**

1. Protected against a solid object greater than 50 mm such as a hand.

2. Protected against a solid object greater than 12.5 mm such as a finger.

3. Protected against a solid object greater than 2.5 mm such as a screwdriver.

4. Protected against a solid object greater than 1 mm such as a wire.

5. Dust protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours.

6. Dust tight. No ingress of dust. Two to eight hours.

**WATER**

1. Protected against vertically falling drops of water. Limited ingress permitted.

2. Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted.

3. Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes.

4. Protected against water splashed from all directions. Limited ingress permitted.

5. Protected against jets of water. Limited ingress permitted.

6. Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.

7. Protection against the effects of immersion in water between 15 cm and 1 m for 30 minutes.

8. Protection against the effects of immersion in water under pressure for long periods.

**Rating Example:**

IP65

**INGRESS PROTECTION**

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