

## Panel Lamp Sealing

Various sealing options, denoted by IP ratings, are available for the different styles of lamps.

## IP Ratings

The IP rating system provides a means of classifying the degrees of protection from dust, water and impact afforded by electrical equipment and enclosure. The system is recognised in most European countries and set out in BS EN 60529:1992 Degrees of protection provided by enclosures (IP code). Note: All LED indicator lamps range from IP66 to IP68

FIRST NUMBER = PROTECTION AGAINST SOLID OBJECTS	
IP TESTS	
0 = No protection	
1 Protected against solid objects up to 50 mm, e.g. accidental touch by hand.	4 Protected against solid objects over 1 mm (tools, wires and small wires)
2 Protected against solid objects up to 12 mm, e.g. fingers.	5 Protected against dust - limited ingress (no harmful deposit)
3 Protected against solid objects over 2.5 mm (tools and wires)	6 Totally protected against dust

SECOND NUMBER = PROTECTION AGAINST SOLID OBJECTS	
IP TESTS	
0 = No protection	
1 Protected against vertically falling drops of water (e.g. condensation).	5 Protected against low pressure jets of water from all directions - limited ingress permitted.
2 Protected against direct sprays of water up to 15° from the vertical.	6 Protected against strong jets of water, e.g. for use on ships decks - limited ingress permitted
3 Protected against direct sprays of water up to 60° from the vertical.	7 Protected against the effects of temporary immersion between 15cm and 1m. Duration of test 30 minutes.
4 Protected against water sprayed from all directions - limited ingress permitted.	8 Protected against long periods of immersion under pressure.