

IP41	Protected from tools and small wires greater than 1 mm.	Protected from condensation.
IP42	Protected from tools and small wires greater than 1 mm.	Protected from water spray less than 15° from vertical.
IP43	Protected from tools and small wires greater than 1 mm.	Protected from water spray less than 60° from vertical.
IP44	Protected from tools and small wires greater than 1 mm.	Protected from water spray from any direction.
IP45	Protected from tools and small wires greater than 1 mm.	Protected from low pressure water jets in any direction.
IP46	Protected from tools and small wires greater than 1 mm.	Protected from high pressure water jets from any direction.
IP47	Protected from tools and small wires greater than 1 mm.	Protected from immersion between 15 cm and 1 m in depth.
IP48	Protected from tools and small wires greater than 1 mm.	Protected from long term immersion up to a specified pressure.
IP50	Protected from limited dust ingress.	Not protected from liquids.
IP51	Protected from limited dust ingress.	Protected from condensation.
IP52	Protected from limited dust ingress.	Protected from water spray less than 15° from vertical.
IP53	Protected from limited dust ingress.	Protected from water spray less than 60° from vertical.
IP54	Protected from limited dust ingress.	Protected from water spray from any direction.
IP55	Protected from limited dust ingress.	Protected from low pressure water jets from any direction.
IP56	Protected from limited dust ingress.	Protected from high pressure water jets from any direction.
IP57	Protected from limited dust ingress.	Protected from immersion between 15 cm and 1 m in depth.
IP58	Protected from limited dust ingress.	Protected from long term immersion up to a specified pressure.
IP60	Protected from total dust ingress.	Not protected from liquids.
IP61	Protected from total dust ingress.	Protected from condensation.
IP62	Protected from total dust ingress.	Protected from water spray less than 15° from vertical.
IP63	Protected from total dust ingress.	Protected from water spray less than 60° from vertical.
IP64	Protected from total dust ingress.	Protected from water spray from any direction.
IP65	Protected from total dust ingress.	Protected from low pressure water jets from any direction.
IP66	Protected from total dust ingress.	Protected from high pressure water jets from any direction.
IP67	Protected from total dust ingress.	Protected from immersion between 15 cm and 1 m in depth.
IP68	Protected from total dust ingress.	Protected from long term immersion up to a specified pressure.
IP69K	Protected from total dust ingress.	Protected from steam-jet cleaning.