

IP _ _

Protection Against
Dust

IP _ _

Protection Against
Water

First characteristic numeral	Degree of protection		Second characteristic numeral	Degree of protection	
	Brief description	Definition		Brief description	Definition
0	Non-protected	-	0	Non-protected	-
1	Protected against solid foreign objects of 50 mm \varnothing and greater	The object probe, sphere of 50 mm \varnothing , shall not fully penetrate ¹⁾	1	Protected against vertically falling water drops	Vertically falling drops shall have no harmful effects
2	Protected against solid foreign objects of 12,5 mm \varnothing and greater	The object probe, sphere of 12,5 mm \varnothing , shall not fully penetrate ¹⁾	2	Protected against vertically falling water drops when enclosure tilted up to 15°	Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical
3	Protected against solid foreign objects of 2,5 mm \varnothing and greater	The object probe, sphere of 2,5 mm \varnothing , shall not penetrate at all ¹⁾	3	Protected against spraying water	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects
4	Protected against solid foreign objects of 1,0 mm \varnothing and greater	The object probe of 1,0 mm \varnothing , shall not penetrate at all ¹⁾	4	Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effects
5	Dust-protected	Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety	5	Protected against water jets	Water projected in jets against the enclosure from any direction shall have no harmful effects
6	Dust-tight	No ingress of dust	6	Protected against powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects
¹⁾ The full diameter of the object probe shall not pass through an opening of the enclosure.			7	Protected against the effects of temporary immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time
			8	Protected against the effects of continuous immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7