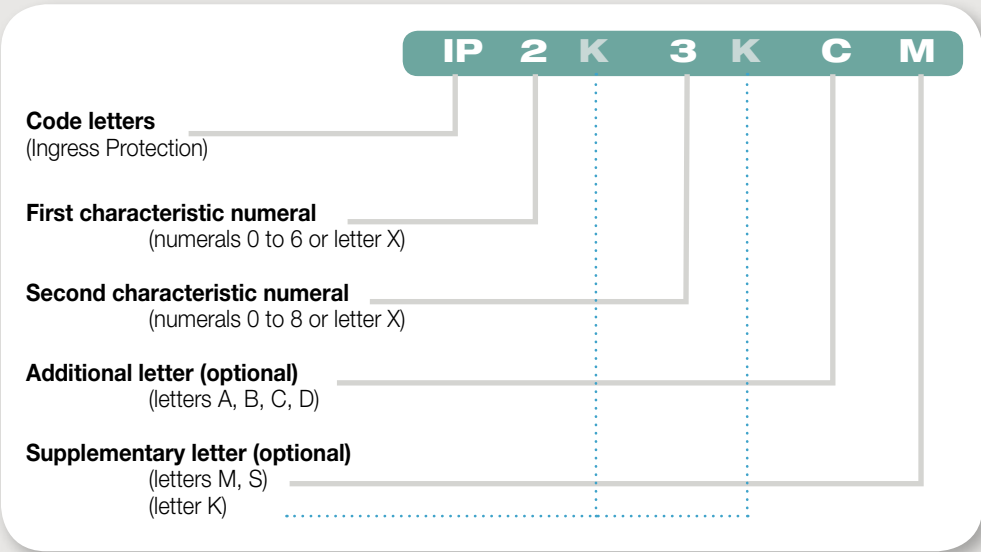


Construction and meaning of the IP (Ingress Protection) Code

The specification of a degree of protection for protection against access and foreign object includes all lower degrees of protection.

The degrees of protection 1 to 6K for protection against water include all the lower degrees of protection. Due to different physical affects, this does not automatically have to apply to water protection grades 7, 8 and 9K.



Ingress Protection: Overview of the Elements of the IP Code

Element	Numeral/ Letter	Meaning for the protection of electrical equipment	Meaning for the protection of persons
First characteristic numeral/ supplementary letter	0	Against the ingress of solid foreign objects (including dust): not protected	Against access to hazardous parts (unless described by extra letters): not protected
	1	with $\varnothing \geq 50\text{mm}$	with back of hand
	2	with $\varnothing \geq 50\text{mm}$	with finger
	3	with $\varnothing \geq 50\text{mm}$	with tool
	4	with $\varnothing \geq 50\text{mm}$	with wire
	5K	dust-protected	with wire
	6K	dust-tight	with wire
Second characteristic numeral/ supplementary letter	0	Against the ingress of water: Not protected	
	1	Vertical dripping	
	2	Dripping (inclined 15°)	
	3	Spraying	
	4	Splashing	
	4K	Same with increased pressure	
	5	Jetting	
	6	Powerful jetting	
	6K	Same at increased pressure	
	7	Temporary immersion	
8	Continuous immersion		
9K	High-pressure/steam jet cleaning		
Additional letter (optional)	A	Meaning for the protection of electrical equipment	Against access to hazardous parts (unless described by first characteristic numeral): with back of hand
	B		with finger
	C		with tool
	D		with wire
Supplementary letter (optional)	M	Movement of moving parts during water test	
	S	Standstill of moving parts during water test	
	K	Specifically for the electrical equipment in road vehicles	