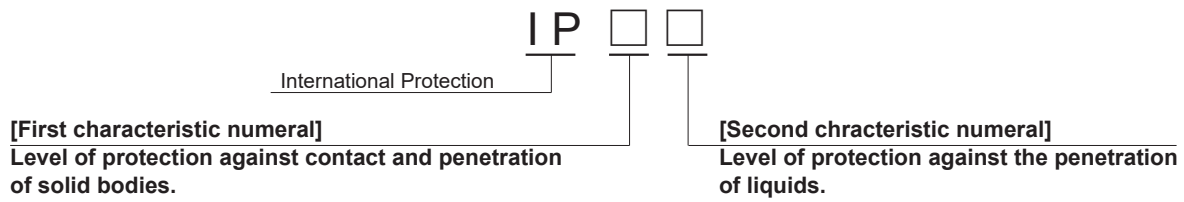


PROTECTION GRADE

• Protection grade applies to the environment of rotary encoder use.

• The Protection grade aims at water protection. For the oil or various types of liquid, please be reminded that the degree of protection is different.



Grade	Degree of protection	
0		No protection
1		Protected against solid foreign objects such as hands of ϕ 50 mm and greater.
2		Protected against solid foreign objects such as finger of ϕ 12.5 mm and greater.
3		Protected against solid foreign objects such as tools or wires of (ϕ or thickness of) 2.5mm and greater.
4		Protected against solid foreign objects such as tools or wires of (ϕ or thickness of) 2.5mm and greater.
5		Protected against such dust as damages the equipment operation.
6		Dust-tight

[Related standards]

IEC (The International Electrotechnical Commission) standard
IEC 60529
Degrees of protection provided by enclosures

JIS JIS-C-0920
JIS(Japanese Industrial Standards) standards JIC-C-0920
Test to prove protection against ingress of water and degree of protection

Grade	Category	Degree of protection	
0			No protection
1	Drip-proof I type		Protected against vertically falling water drops.
2	Drip-proof II type		Protected against vertically falling water drops when enclosure is tilted up to 15°.
3	Rain-proof type		Protected against rainfall when enclosure is tilted up to 60°.
4	Splash-proof type		Protected against splashing water.
5	Water-jets-proof type		Protected against water jets.
6	Waterproof type		Protected against powerful water jets.
7	Watertight type		Protected against the effects of temporary immersion in water.
8	Underwater type		Protected against the effects of continuous immersion in water.