



**APEM**

# Technical information

## Degrees of protection : IP and IK codes

The degree of protection is indicated by 2 letters and 2 numbers.

**Example : IP 6 5**



IP•• degree of protection provided by the enclosures of electric appliances according to IEC 529 and DIN 40050.

IK•• degree of protection provided by the enclosures of electric appliances against external mechanical impacts according to EN 50102 (NFC 20-015).

1st number : protection against ingress of solid objects		
IP	tests	
0		Non-protected
1	$\varnothing 52,5\text{ mm}$	Protected against solid objects of 50 mm (1.968) and greater
2	$\varnothing 12,5\text{ mm}$	Protected against solid objects of 12,5 mm (.492) and greater
3	$\varnothing 2,5\text{ mm}$	Protected against solid objects of 2,5 mm (.098) and greater
4	$\varnothing 1\text{ mm}$	Protected against solid objects of 1 mm (.039) and greater
5	Dust-protected (no harmful ingress)	
6	Dust-tight (no ingress)	

2nd number : protection against liquids		
IP	tests	
0		Non-protected
1	Protected against vertically falling water drops	
2	15° Protected against vertically falling water drops when enclosure tilted up to 15°	
3	60° Protected against water sprayed vertically at an angle up to 60°	
4	Protected against splashing water	
5	Protected against water jets from any direction	
6	Protected against powerful water jets	
7	1 m Protected against the effects of temporary immersion in water	
8	x Protected against the effects of continuous immersion in water (depth x to be specified)	

**IK code :**  
mechanical protection

The degree of mechanical protection is now defined by the **letters IK** according to EN 50102 of June 1995 (NFC 20-015)

It is only applicable to the "Anti-vandal" models of the AV series.  
See section B .



**A P E M**

ROBUSTNESS				
	Model Ø 19 mm (.748)		Model Ø 22 mm (.866)	
Degree of protection according to EN 50102, June 95 (NFC 20-015)	<p>1.7 Kg 29.5 cm Hammer radius 25 mm</p>	<p><b>IK08</b> Striking energy: 5 joules (5Nm)</p>	<p>5 Kg 40 cm Hammer radius 50 mm</p>	<p><b>IK10</b> Striking energy: 20 joules (20Nm)</p>
	Impacts on actuator according to CECC 96000 Hammer radius 10 mm	<p>0.3 Kg 34 cm Hammer radius 10 mm</p>	<p>10 strokes Striking energy: 1 joule (1Nm)</p>	<p>1.5 Kg 34 cm Hammer radius 10 mm</p>

### Apem Components



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