JooShin Corporation
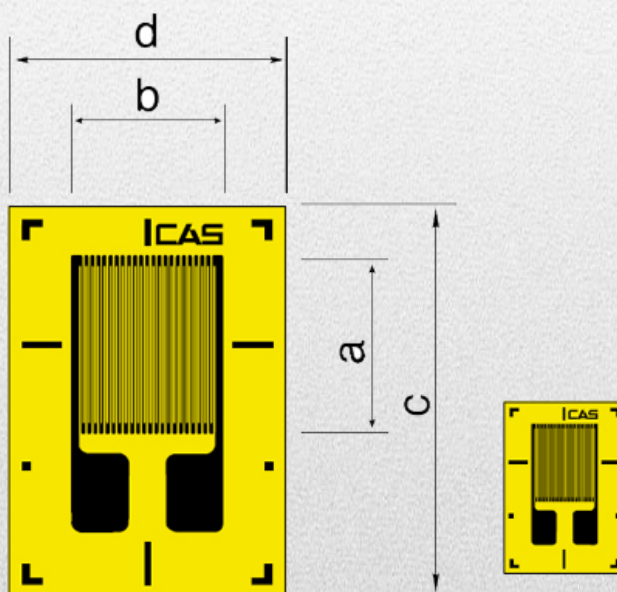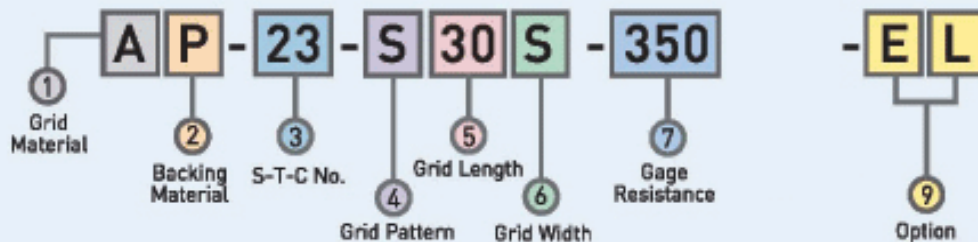
* Linear type strain gauge (S series)

* Resistance : 1,000Ω

* Cas strain gauge has been manufactured based on international standard of NAS942. OIML and ASTM.
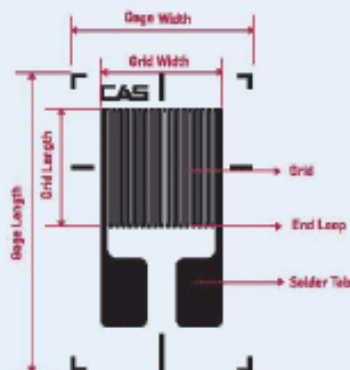
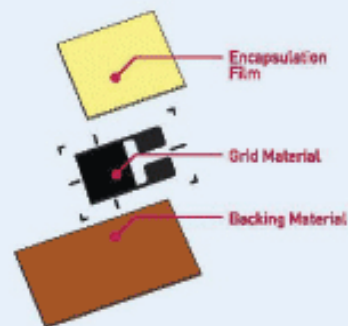| Linear shear type 1KΩ strain gauge Model No. for Steel or Concrete			DIMENSION (unit : mm)			
Model	Model	Model	a	b	c	d
AP-11-S30S-1K-E	AP-11-S30S-1K-EL	AP-11-S30S-1K-EC	3	2.7	7	4.8
AP-11-S40S-1K-E	AP-11-S40S-1K-EL	AP-11-S40S-1K-EC	4	3.8	8	5.5
Linear shear type 1KΩ strain gauge Model No. for Aluminum			DIMENSION (unit : mm)			
AP-23-S30S-1K-E	AP-23-S30S-1K-EL	AP-23-S30S-1K-EC	3	2.7	7	4.8
AP-23-S40S-1K-E	AP-23-S40S-1K-EL	AP-23-S40S-1K-EC	4	3.8	8	5.5

Coding System

Cas Strain gauges has been manufactured based on international standard of NAS942, OIML and ASTM, and Cas has applied coding system to sort pattern, application, material and resistance of strain gauges.

A P - 23 - S 30 S - 350 - E L

- ① Grid Material
- ② Backing Material
- ③ S-T-C No.
- ④ Grid Pattern
- ⑤ Grid Length
- ⑥ Grid Width
- ⑦ Gage Resistance
- ⑨ Option

No		Code		Infomation
1	A		Grid Material	A : Constantan, K : Karma
2	P		Backing Material	P : Polyimide film, B : Phenolic resin
3	23		S-T-C No.	11 : Steel, 23 : Aluminum
4	S		Grid Pattern	S : Single Linear, T : Tee Rosette, D : Diaphragm, R : 3 elements rosette, Q-Shear
5	30		Grid Length	10(1mm) ~ 900(90mm)
6	S		Grid Width	N : Narrow, S : Same, W : Wide (width-length ratio)
7	350		Gage Resistance	120, 350, 700, 1000, 2000, 3000
9	EL		Option	E : Encapsulated, L : Lead wire attached, C : Cable attached

Gage Width
Grid Width
CAS
Grid Length
Gage Length
- → Grid
- → End Loop
- → Solder Tab

Strain Gage Terminology

- Encapsulation Film
- Grid Material
- Backing Material

Strain Gage Structure

Strain Gage Installation

Abrading the appliation

Marking the appliation

Cleaning the appliation

Aligning the strain gage

Applying the catalyst

Dropping the adhesive

Pressing the strain gage

Soldering leading-wires of strain gage to the application

Soldering and locking cables

Coating the application