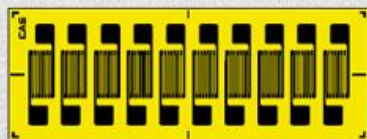
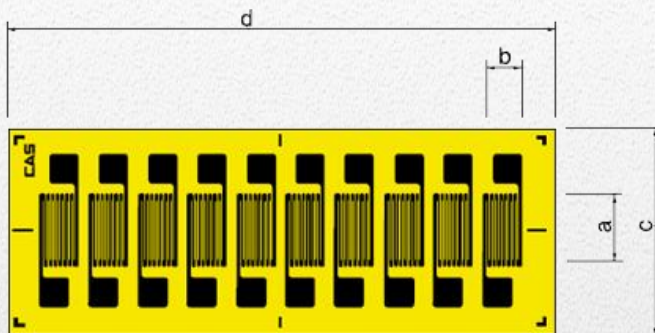


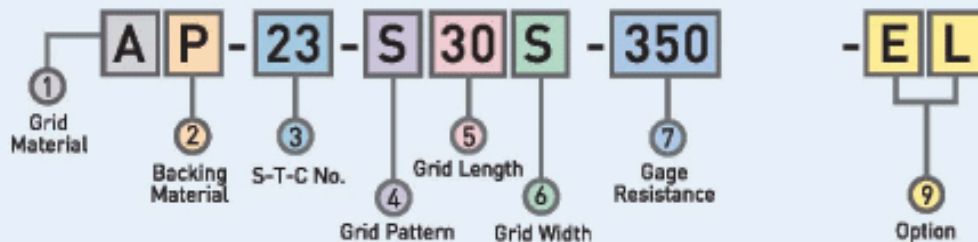
- \* Strip Gauge type strain gauge (SH series)
- \* Bending application
- \* Resistance : 120Ω
- \* Cas strain gauge has been manufactured based on international standard of NAS942. OIML and ASTM.



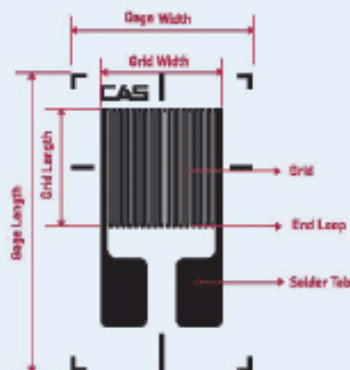
| Strip gauge type 120Ω strain gauge Model No. for Steel or Concrete |                      |                    | DIMENSION (unit : mm) |     |     |    |
|--------------------------------------------------------------------|----------------------|--------------------|-----------------------|-----|-----|----|
| No lead wire type                                                  | Lead wire(10mm) type | Cable(1meter) type | a                     | b   | c   | d  |
| AP-11-SH15S-120-E                                                  | AP-11-SH15S-120-EL   | AP-11-SH15S-120-EC | 1.5                   | 1.5 | 7.5 | 22 |
| AP-11-SH30N-120-E                                                  | AP-11-SH30N-120-EL   | AP-11-SH30N-120-EC | 3                     | 1.5 | 9.7 | 27 |
| Strip gauge type 120Ω strain gauge Model No. for Aluminum          |                      |                    | DIMENSION (unit : mm) |     |     |    |
| AP-23-SH15S-120-E                                                  | AP-23-SH15S-120-EL   | AP-23-SH15S-120-EC | 1.5                   | 1.5 | 7.5 | 22 |
| AP-23-SH30N-120-E                                                  | AP-23-SH30N-120-EL   | AP-23-SH30N-120-EC | 3                     | 1.5 | 9.7 | 27 |

## Coding System

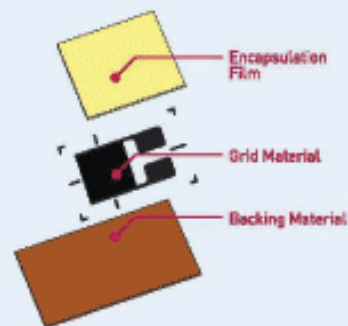
Cas Strain gauges has been manufactured based on international standard of NAS942, OIML and ASTM, and Cas has applied coding system to sort pattern, application, material and resistance of strain gauges.



| No | Code | Information                                                                                     |
|----|------|-------------------------------------------------------------------------------------------------|
| 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                             |



Strain Gauge Terminology



Strain Gauge Structure

## Strain Gage Installation



1  
Abrading the application



2  
Marking the application



3  
Cleaning the application



4  
Aligning the strain gage



5  
Applying the catalyst



6  
Dropping the adhesive



7  
Pressing the strain gage



8  
Soldering leading-wires of  
strain gage to the application



9  
Soldering and locking cables



10  
Coating the application