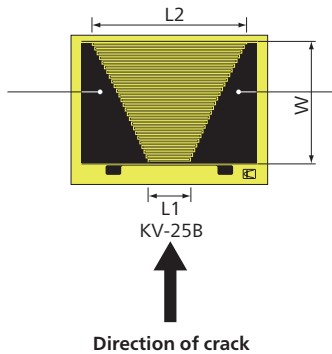
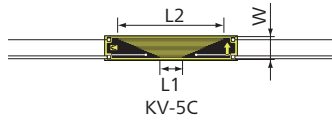


Crack Gages (KV)

●KV Series Crack Gages

Bonded to the cracked part of a structure or material (or a part of such material where a crack is predicted to develop), the KV series gages measure the developing length and velocity of the crack. Different from usual strain gages, the grids of the KV series gages are cut along with crack development, resulting in resistance change.



Features

- Progress and developing velocity of the crack are electrically obtained.
- Applicable to both flat and curved surfaces.
- Resistance change vs crack length is virtually linear.
- Dedicated adapter enables use of a conventional strain amplifier.
- Extremely simple and convenient compared with the conventional optical method.
- Allows 2 trigger wires each in front of and behind the grid (KV-5C) to be used for automation of measurement.

Specifications

Models	Resistance (Ω)	Base size (mm)	Base material	Grid size (mm)				Qty of grids
				L1	L2	W	Pitch	
KV-5C	Approx.1.0	30x5	Paper base + phenol-epoxy	5.4	25.2	4.6	0.1	46
KV-25B	Approx.1.0	42x32	Paper base + phenol-epoxy	9	33.6	25.2	1	26

5 gages/pkg

Applicable Adhesives: CC-33A, CC-36, PC-600

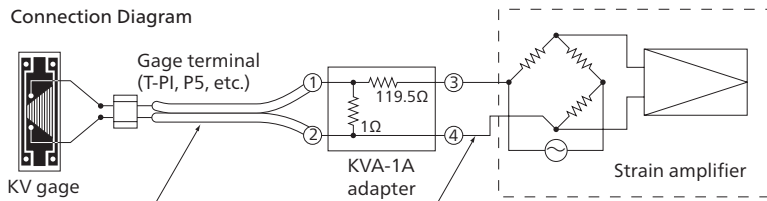
Adapter: KVA-1A (Optional accessories)

Dimensions: 35 x 20 x 15 mm

●Adapter KVA-1A (Option)



Connection Diagram



Note: Use lead wires with a low resistance to connect to the adapter (0.1Ω or less).



Strain Gages

Outline

Lead-wire cable

General

Waterproof

Concrete

Composite material
PCB
Plastics

Ultra-small strain
High temp.
Low temp.

High elongation

Non-magneto
resistive

Hydrogen gas
Bending

With protector
Embedded

Crack

Adhesive
Coating agent

Custom-
designed