Strain Gages

Outline

Lead-wire cable

General

Waterproof

Concrete

Composite material

Ultra-small strain

Low temp

High elongation

Waterproof Strain Gages (KFWS & KCW)

Patterns, Gage Resistance, Gage Factor		Dimens				
		Gage (Grid)	Bas	e	Remarks	
		Length Width	Length \	Width		

KFWS Series Small-sized Waterproof Foil Strain Gages

Operating temp Remarks

RoHS

The KFWS series foil strain gages are small-sized waterproof gages suitable for outdoor or underwater strain measurement where gage bonding space is limited. The waterproof resin is as thin as 1.3 mm, making them flexible enough to be bonded to a curved surface of 10 mm diameter.

Applicable Adhesives

	Operating Temp. after Curing the Adhesive
CC-33A	−10 to 80°C
CC-36	−10 to 80°C

■Types, lengths and codes of lead-wire cables pre-attached to KFWS series gages

When ordering, suffix the lead-wire	Туре	Vinyl-coated fla	at 2-wire cable	Vinyl-coated flat 3-wire cable		
cable code (see table at the right)	Length	C1	D16	C1	D16	
in between.	15 cm	L15C2R	L15C2S	L15C3R	L15C3S	
	30 cm	L30C2R	L30C2S	L30C3R	L30C3S	
E.g.	1 m	L1M2R	L1M2S	L1M3R	L1M3S	
For the gage with a vinyl-coated flat	3 m	L3M2R	L3M2S	L3M3R	L3M3S	
2-wire cable 3 m long	5 m	L5M2R	L5M2S	L5M3R	L5M3S	

→ KFWS-2N-120-C1-11 L3M2R

Uniaxial

Resistance: 120 Ω Gage factor: Approx. 2.1



	Remarks	L-6, L-9 for ≥ 6 m	L
>	For othe	er lead-wire cable lengths, con	tact us.

The following models are delivered with a vinyl-coated flat 3-wire cable 5 m long pre-attached.

−10 to 80°C

KFWS-2N-120-C1-11 L5M3R	
KFWS-2N-120-C1-16 L5M3R	2
VEVAC 2NI 120 C1 22 LEM2D	

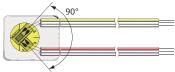
0.84

6 15

L-7, L-10 for \geq 6 m

Biaxial, 0°/90° stacked rosette

Resistance: 120 Ω Gage factor: Approx. 2.1



The following models are delivered with a vinyl-coated flat 3-wire cable 5m long pre-attached.

KFWS-2-120-D16-11 L5M3S				
KFWS-2-120-D16-16 L5M3S	2	1.2	15	12
KFWS-2-120-D16-23 L5M3S				

Patterns, Gage Resistance, Gage Factor	Models	Dimensi		
		Gage (Grid)	Base	Remarks
		Length Width	Length Width	

•KCW Series Weldable Waterproof Foil Strain Gages

When ordering, suffix the lead-wire cable code (see table at the right) to the model number with a space in between.

For the gage with a chloroprene-coated 3-wire cable 5 m long

→ KCW-5-120-G10-11 G5M3S

Uniaxial 1 element With chloroprene 3-wire cable

Resistance: 120 Ω Gage factor: Approx. 2.2



The KCW series foil strain gages are weldable gages, which do not require any coating treatment for use under high pressure or under water. The G10 type endures a water pressure of approximately 10 MPa.

Mounting Method and Operating Temperature Spot welding: -20 to 100°C

■Types, lengths and codes of lead-wire cables pre-attached to KCW gages

Туре	Chloroprene 3-wire cable
Length	G10
15 cm	G15C3S
30 cm	G30C3S
1 m	G1M3S
3 m	G3M3S
5 m	G5M3S
Operating temp.	-20 to 100°C

*For other lead-wire cable lengths, contact us.

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						Min. radius of curvature R20
	KCW-5-120-G10-11 G3M3S	5	-	21	5	2 gages/ pkg

magnetoresistive

Hydrogen gas Bending

With protector Embedded

Crack

Adhesive Coating agent

> Customdesigned