

Waterproof Strain Gages KFWS & KCW



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

●KFWS Series Small-sized Waterproof Foil Strain Gages

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 and Operating Temperature Range after Curing

Adhesives	Operating Temp. after Gluing the Gages
CC-33A	-10 to 80°C
CC-36	-10 to 80°C
EP-180	-10 to 80°C

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

Types	Vinyl-coated flat 2-wire cable		Vinyl-coated flat 3-wire cable	
	C1	D16	C1	D16
Length				
15 cm	L15C2R	L15C2S	L15C3R	L15C3S
30 cm	L30C2R	L30C2S	L30C3R	L30C3S
1 m	L1M2R	L1M2S	L1M3R	L1M3S
3 m	L3M2R	L3M2S	L3M3R	L3M3S
5 m	L5M2R	L5M2S	L5M3R	L5M3S
Operating temp.	-10 to 80°C			
Remarks	L-6, L-9 for ≥ 6 m		L-7, L-10 for ≥ 6 m	

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

E.g.

KFWS-2N-120-C1-11 L3M2R

for the gage with a vinyl-coated flat 2-wire cable 3 m long

Uniaxial

Resistance: 120 Ω
Gage factor: Approx. 2.1



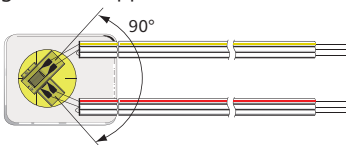
*For other lead-wire cable lengths, contact us.

The following models with the lead-wire cable code L5M3R are delivered with a vinyl-coated flat 3-wire cable 5 m long pre-attached.

KFWS-2N-120-C1-11 L5M3R					
KFWS-2N-120-C1-16 L5M3R	2	0.84	15	6	10 gages/ pkg
KFWS-2N-120-C1-23 L5M3R					

Biaxial, 0°/90° stacked rosette

Resistance: 120 Ω
Gage factor: Approx. 2.1



The following models with the lead-wire cable code L5M3S and 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	10 gages/ pkg
KFWS-2-120-D16-23 L5M3S					

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

●KCW Series Weldable Waterproof Foil Strain Gages

The KCW series foil strain gages are weldable gages, which does not require any coating treatment for use under high pressure or under water. They are available in 2 types: G10 with 1 gage and G14S with 4 gages. The G10 type endures a water pressure of approximately 10 MPa.

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

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

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

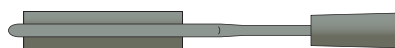
E.g.

KCW-5-120-G10-11 G5M3S

If connecting 5 m of 3 strand chloroprene coated wire to KCW-5-120-G10-11

Uniaxial 1 element With 3 strand chloroprene wire

Resistance: 120 Ω
Gage factor: Approx. 2.2



Material: SUS304

Types	3 strand chloroprene wire			
	G10			
Length				
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.

The following type is for 3 m of 3 strand chloroprene wire.

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