

ε MF-Series

Non-inductive Strain Gauges

DESCRIPTION

These are non-inductive strain gauges suited to the measurement in magnetic field. The sensing element of this gauge consists of two identical grids with one grid folded back on another. This construction makes to cancel the electromagnetically induced noise each other. The twisted leadwire is also effective to cancel the induced noise in the same way. Accordingly, this strain gauge is less sensitive to the influence of noise induced in changing magnetic field.



SINGLE AXIS (FOR STEEL OR CONCRETE)

Gauge pattern	Туре	Gauge s Length		Backing s Length		Resist- ance Ω
• Single axis						
	MFLA-2-350	2	0.5	4.7	1.9	350
MFLA-5-350- □-1LJAY Used leadwire 0.08mm ² twisted vinyl leadwire 1 m Loop resistance per 1 m: 0.44Ω	MFLA-5-350	5	0.7	8.1	1.9	350
MFLA-5-3501LS (Shielded leadwire) Shield Used leadwire 3.2 mm dia. 2-core twisted shielded vinyl leadwire 1 m Loop resistance per 1 m: 0.44Ω • Single axis (for concrete)						
MFLA-60-350- □-1LJAY Used leadwire 0.08mm ² twisted vinyl leadwire 1 m Loop resistance per 1 m: 0.44Ω	MFLA-60-350	60	0.1	64	5	350
MFLA-60-350- □-1LS (Shielded leadwire) Used leadwire 3.2 mm dia. 2-core twisted shielded vinyl leadwire 1 m Loop resistance per 1 m: 0.44Ω Minimum order quantity is 10 strain gauges. NB: □ shows the objective material for temperature compensation (×10 ⁻⁶ /°C)				Shield		

NB: \Box shows the objective material for temperature compensation (×10⁻⁶/°C)



MULTI-AXIS (FOR HIGH TEMPERATURE USE)

Multi-axis strain gauges of this series utilize polyimide resin for the backing and they are applicable to the measurement in high temperature.

Operating temperature range -20 ~ + 200°C	Applicable ac CN NP-50	dhesives - 20 ~ + 80℃ - 20 ~ + 200℃
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Gauge pattern		Туре	Gauge size(mm) Length Width		Backing size(mm) Length Width	Resist- ance Ω	
• 2-axis 0° / 90° Stacked	type						
	Used leadwire 1.5 mm dia. 0.04mm ² 3-wire twisted shielded FEP leadwire 1 m	Shield	MFCAL-2	2	0.1	φ7	120
			MFCAL-2-350	2 0.2		φ7	350
MFCAL-2- D-6FD1LTS	Loop resistance per 1 m: 1.1 Ω						
• 3-axis 0° / 45° / 90° St	acked type						
			MFRAL-2	2	0.1	φ7	120
	Used leadwire 1.5 mm dia. 0.04mm ² 3-wire twisted shielded FEP leadwire 1 m	Shield	MFRAL-2-350	2	0.2	φ7	350
MFRAL-2-□-6FD1LTS	Loopl resistance per 1 m: 1.1 Ω						
Minimum order quantity is 10 stra The length of integral leadwire for	in gauges. r multi-axis strain gauges of this series is availabl	e up to 1 meter					

NB: □ shows the objective material for temperature compensation (×10⁻⁶/°C)

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