Non-inductive Strain Gauges QMF series $C \in \mathbb{Q}$

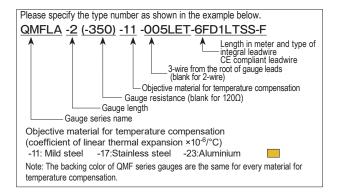
These are non-inductive strain gauges suited to the measurement in magnetic field. The sensing element of this gauge consists of two identical grids with one grid folded back on another. This construction makes to cancel the electromagnetically induced noise each other. The twisted leadwire is also effective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

Operating temperature range

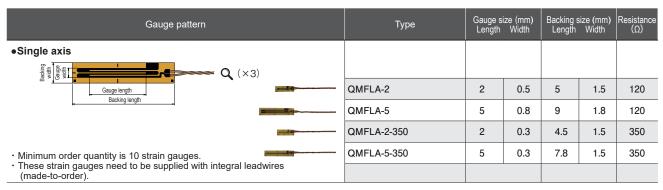
-30∼+200°C

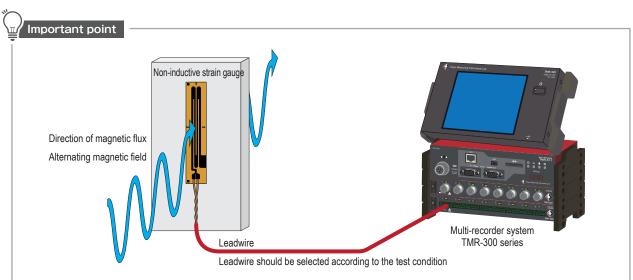
Temperature compensation range
0∼+150°C

Applicable adhesives
CN −30~+120°C
NP-50B −30~+200°C



Single axis (for steel)





Features

- Gauge resistance of 120 Ω is added to the product lineup
- Connection is selected from quarter bridge 2-wire, quarter bridge 3-wire and quarter bridge 3-wire (with 3-wire from the root of gauge leads) according to the test condition
- Operating temperature range is extended to -30 ~ +200°C (temperature compensation range to 0 ~ +150°C)
- Gauge lead length of approx. 50 mm allows easy bonding works (only for the gauges with 3-wire from the root of gauge leads)
- CE marked

Strain Gauge Extension Leadwires Recommended for QMF Series

We offer various types of extension leadwires dedicated to strain gauges in order to satisfy customers' requirements.

Type and designation of leadwire

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Application	Leadwire name	Operating temperature range of leadwire (°C)	Loop resistance per $1\mathrm{meter}\ (\Omega)$	Example of type number
Magnetic field Room temperature (without temperature change) QMI	2-wire twisted vinyl leadwire LJAY-F	-20 ~+80	0.44	QMFLA-2-11-1LJAY-F
QMI	3.2mm-dia. 2-core shielded vinyl leadwire LS-F FLA-2-[a]-[z]LS-F	-20 ~+80	0.44	QMFLA-2-11-1LS-F
Magnetic field Room temperature QMI	3mm-dia. 3-core shielded vinyl leadwire LTSA-F Red (independent) Black White Shield	-20 ~+80	0.44	QMFLA-2-11-1LTSA-F
Magnetic field High temperature QMI	1.5mm-dia. 3-core shielded fluorinated resin (FEP) leadwire 6FDOLTS-F Red (independent) Black White Shield	-30 ~+200	1.1	QMFLA-2-11-6FD1LTS-F
Magnetic field Room temperature (with 3-wire from the root of gauge leads) QMI	3mm-dia. 3-core shielded vinyl leadwire LTSAS-F e Red (independent) Black Black White Shield	-20 ~+80	0.44	QMFLA-2-11-005LET-1LTSAS-F
Magnetic field High temperature (with 3-wire from the root of gauge leads) QMI	1.5mm-dia. 3-core shielded fluorinated resin (FEP) leadwire 6FDOLTSS-F Red (independent) Black White Shield	-30 ~+200	1.1	QMFLA-2-11-005LET-6FD1LTSS-F

[a] : Objective material for temperature compensation (coefficient of linear thermal expansion \times 10⁻⁶/ $^{\circ}$ C)

[z]: Leadwire length (m)

