



LS31

Weldable strain gages

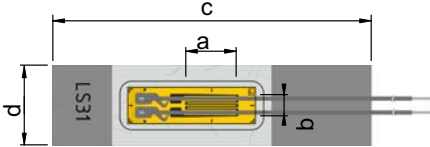
Special features

- "On-site" applications, where the required cleanliness for adherence cannot be guaranteed
- Rugged for tough environments
- Easily installed using spot welding
- Applications up to 150°C
- Available from stock

Specifications

Strain gage construction		Foil strain gage (quarter bridge circuit) hot-cure bonded to the carrier plate
Strain gage carrier		Polyimide foil
Carrier plate		
Dimensions	mm	40x10x0.1
Material		X8Cr17
Measuring grid foil		Constantan
Covering agent		Transparent silicone resin
Connection		0.5 m PTFE stranded wire
Measuring grid length	mm	6
Nominal (rated) resistance:	Ω	350 (measured at end of cable)
Resistance tolerance	%	± 1.0
Gage factor		approx. 2 (specified on each package)
Gage factor tolerance	%	± 1
Temperature coefficient of the gage factor		Specified on each package
Transverse sensitivity		Specified on each package
Maximum permissible excitation voltage	V	13
Application temperature range	C (°F)	-70 ... +150 (-94 ... +302)
Temperature response matching	ppm/K (ppm/°F)	10.8 (6.0) (ferritic steel)
Maximum elongation	$\mu\text{m}/\text{m}$	± 3000 (0.3%)
Minimum radius of curvature (longitudinal and transverse)	mm	75
Strain-related restoring force	$\frac{\text{N}}{1000 \mu\text{m}/\text{m}}$	<250
Mounting method		Spot welding (see operating manual)

Types and dimensions

	Ordering number	Nominal (rated) resistance:	Dimensions (mm)			
			Measuring grid		Carrier plate	
			Ω	a	b	c
	1-LS31-6/350	350	6	2.8	40	10

Subject to modifications.
All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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