Strain Gage / Series V



Encapsulated Strain Gages with 3m Cable

Series V Strain Gages

- low cost encapsulated strain gages
- 3m cable, PVC insulated
- high mechanical protection

Order designation of preference types	Nominal resistance	Dimensions (mm) [1 inch = 25.4 mm]				Max. perm. effective bridge supply voltage	LV41 Contents per packag	e: 10 pcs.	Temperature variation adjusted to steel with $\alpha = 10.8 \cdot 10^{-6} / K$
		Measu grid		Measur	ring grid rier		XV91		RV91
Steel	Ω	a	b	С	d	V	T-rosette 0°/90° Contents per packag		0°/45°/90° rosette Contents per package: 5 pcs.
1-LV41-3/120	120	3	1.1	19	12	2			-
1-XV91-3/120	120	3	1.4	24.5	20.5	2			77
1-RV91-3/120	120	3	1.25	24.5	20.5	1	- 英格	100	12.50
							898	LUII.	
							LV41	XV91	RV91

Technical Data

strain gage constuction measuring grid material thickness carrier material	μт	foil strain gage with embedded measuring grid in plastic resin Constantan foil 5 polyimide		
base thickness cover thickness total thickness	μm μm mm	45 ± 10 25 ± 5 1.5		
connections		PVC coated stranded wire for connection, 3m in length, two wire connection		
nominal resistance	Ω	120; connection leads inclusive		
resistance tolerance	0/0	± 0.5		
gage factor		approx. 2		
nominal value of gage factor		specified on each package		
gage factor tolerance	0/0	± 1		
temperature coefficient of the gage factor	1/K	ca. (115 ± 10) · 10 ⁻⁶		
nominal value of temperature coefficient of gage factor	.,	specified on each package		
reference temperature	°C	23		
operation temperature range for static, i.e. zero point related measurements	°C	-30 + 105		
for dynamic, i.e. not zero point related measurements	°C	-30 + 105 -30 + 105		
temperature variation		specified on each package		
Adjustment of temperature variation within range	°C	-10 + 105		
maximum elongation ¹⁾ bat reference temperature using adhesive Z 70 on strain gage type LV41-3/120				
strain limit ϵ for positive direction	μm/m	20 000 (🛆 2 %)		
strain limit ϵ for negative direction	μm/m	50 000 (🛆 5 %)		
minimum radius of curvature, longitudinal and transverse, at reference temperature	mm	10		
usable bonding materials cold curing adhesives		Z 70; X 60; X280		