

1101 ULTRA PRECISION COMPRESSION ONLY LOAD CELL (U.S. & METRIC)

SPECIFICATIONS

PARAMETERS		MODEL		
		1111	1111	1121
		CAPACITY		
Measuring Range	U.S. (lbf)	1K, 2K	5K, 10K	25K, 50K
	Metric (kN)	5, 10	25, 50	100, 250
ACCURACY – (MAX ERROR)				
Static Error Band – %FS		±0.02	±0.03	±0.03
Nonlinearity – %FS		±0.03	±0.04	±0.04
Hysteresis – %FS		±0.02	±0.04	±0.04
Nonrepeatability – %RO		±0.01	±0.01	±0.01
Creep, in 20 min – %		±0.025	±0.025	±0.025
Side Load Sensitivity – %		±0.1	±0.1	±0.1
Eccentric Load Sensitivity – % / in		±0.1	±0.1	±0.1
TEMPERATURE				
Compensated Range	°F	+15 to +115	+15 to +115	+15 to +115
	°C	-10 to +45	-10 to +45	-10 to +45
Operating Range	°F	-65 to +200	-65 to +200	-65 to +200
	°C	-55 to +90	-55 to +90	-55 to +90
Effect on Zero – %RO / deg	°F	±0.0004	±0.0004	±0.0004
	°C	±0.0007	±0.0007	±0.0007
Effect on Output – % / deg	°F	±0.0008	±0.0008	±0.0008
	°C	±0.0015	±0.0015	±0.0015
ELECTRICAL				
Rated Output – mV/V (Nominal)		2.0	4.0	4.0
Excitation Voltage – VDC MAX		20	20	20
Bridge Resistance – Ohm (Nominal)		350	350	350
Zero Balance – % RO		±1.0	±1.0	±1.0
Insulation Resistance – Megohm		5000	5000	5000
MECHANICAL				
Safe Overload – %CAP		±150	±150	±150
Deflection @ RO	in	0.002	0.004	0.004
	mm	0.05	0.10	0.10
Base Part Number (Ref)		B101	B102	B103
Natural Frequency – kHz		4.5, 6.4	4.3, 6.1	4.1, 4.6
Weight	lbs	3.3	7.3	21.5
	kg	1.5	3.3	9.8
Calibration		Compression		
Material		Tool steel		

OPTIONS

- Connector protection
- Standardized output
- Transducer Electronic Data Sheet (TEDS)
- Custom calibration
- Multiple bridge
- Special threads
- Dual diaphragm
- Special temperature range
- Cable length
- Add connector to cable

CONNECTOR OPTIONS

- Integral cable 10 ft (3.0 m)
- PT02E-10-6P bayonet connector
- PC04E-10-6P screw-type connector

ACCESSORIES

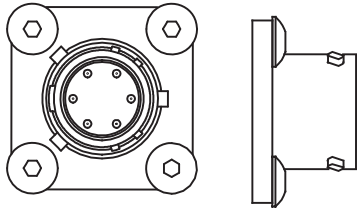
- Mating connector
- Mating cable
- Instrumentation
- Loading hardware

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BAYONET CONNECTOR



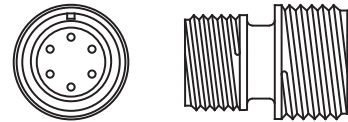
Model 1121BAY-50K (Shown)



SCREW TYPE CONNECTOR



Model 1121HL-50K (Shown)



INTEGRAL 10FT CABLE CONNECTOR



Model 1121EX-50K (Shown)

