Model 1004

Single Point Load Cells

NEW!

Features

- Capacities: 0.3 kg - 3 kg (0.6 lbs - 6 lbs)
- Aluminum construction
- Single point 200 mm x 200 mm
- IP66 protection
- Total error better than 0.0067% of rated output

Model 1004 is a very low capacity, very high precision single point load cell designed for direct mounting in low capacity scales and precision balances.

The unit is suitable for applications including jewelry scales, analytical balances, medical equipment, medical and pharmaceutical research and low level force measurement.

The model 1004 offers up to 30,000 divisions short term precision at stable room temperature. A special two-stage humidity resistant protective coating assures long term reliability.

An overload protection device should be included in the application design. A threaded hole is provided in the loading end of the load cell for this purpose.

VISHAY
Transducers

EXCELLENCE IN LOAD CELLS

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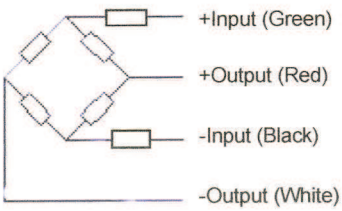
Model 1004

Single Point Load Cells

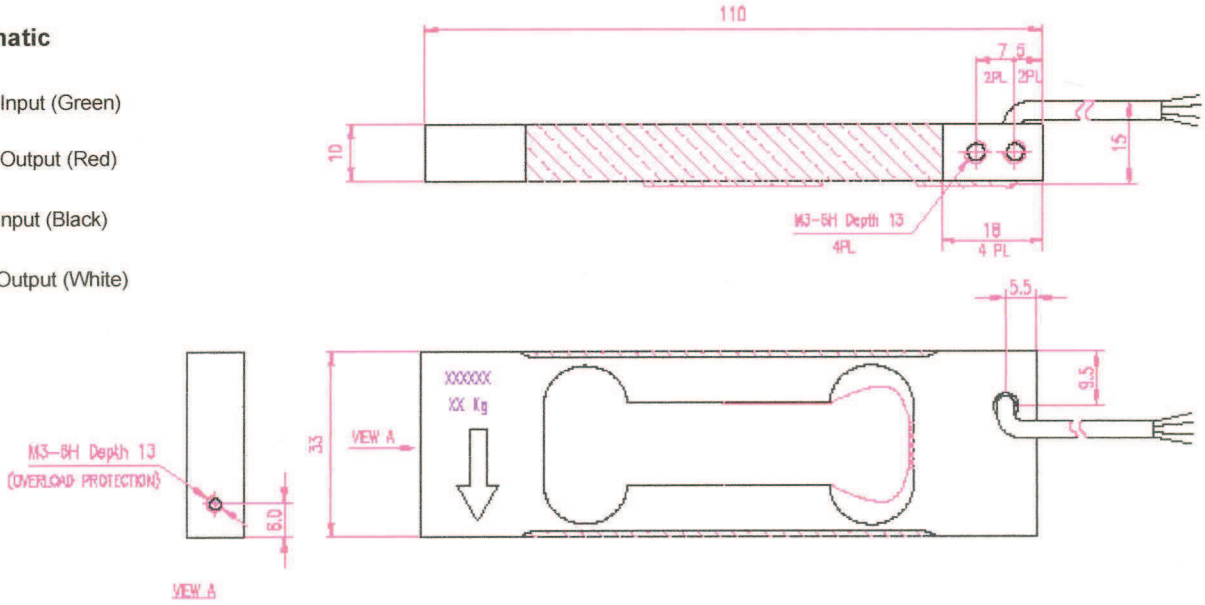
GRADE	JW	UNITS
Rated Capacity	0.3, 0.6, 1.5, 3	kg
Rated Output	0.9 ±0.1	mV/V
Rated Output Tolerance	0.1	± mV/V
Zero Balance	0.04	± mV/V
Total Error (at constant room temperature)	0.0067	±% of Rated Output
Zero Return (creep) in 2 minutes	0.0033	±% of Applied Load
Temperature Effect: On Zero	0.004	±% of Rated Output/°C
Temperature Effect: On Output	0.002	±% of Applied Load/°C
Eccentric loading error	0.0033	±% of Load / cm
Maximum recommended platform size	20 by 20	cm
Temperature Effect: Compensated	+5 to +45	°C
Temperature Effect: Safe	-30 to +70	°C
Maximum Safe Static Overload (central loading)	150	% of Rated Capacity
Ultimate Static Overload (central loading)	250	% of Rated Capacity
Excitation: Recommended	10	VAC or VDC rms
Excitation: Maximum	15	VAC or VDC rms
Input Impedance	415 ± 20	Ohms
Output Impedance	350 ± 3	Ohms
Insulation Resistance	>2000	MegaOhms
Deflection of Rated Capacity (Central Loading)	<0.4	mm
Cable Length	0.4	m
Weight (nominal)	0.06	kg
Cable Type	0.4 m, 4-wire, 28 AWG, spiral shield, PVC jacket	
Color Code	+exc-grn, +sig-red -exc-blk, -sig-wht	
Construction	Aluminum	
Platform Size	200 x 200	mm
Compensation Circuit Type	Balanced	
Environmental Protection	IP66	
Outline Dimension Drawings	273.000.00-3	

Recommended bolt fixing torqueL 1.4nm (1.0 lbf.ft)

Wiring Schematic



Outline Dimensions All Capacities (in mm)



ENS LYON

TEDEA-HUNTLEIGH LOAD TEST DATA SHEET

RoHS

General Data

Serial number	18819588	Calibration Mode	Compression
Model	1004	Input Impedance	415+/-20 Ohms
Capacity(kg)	0.3	Output Impedance	350+/-3 Ohms
Thread Type	METRIC	Insulation Resistance>	2 GOhms
Grade	HW	Test Excitation	10 V dc

BTH Metrology Data

Zero Balance	-0.0257 mv/v		
Output @R.C.	0.8558 mv/v	Platform Size	20 x 20 cm
Temperature Effect		Eccentricity Test Load	300.0g
on Zero	< 0.0040 %R.O. /DEG C	Eccentricity	<0.0033 %Load/cm
on Span	< 0.0020 %Load/DEG C		
Zero Return	< 0.0055 %Load(2MINS)	Total Error	<0.0067 %R.O.

Compensated Temperature Range	5 To + 45 Degree C
safe Temperature Range	-30 To + 70 Degree C