Model 363

Tedea-Huntleigh

VPG force sensors

Celtron • Revere • Sensortronics • Tedea-Huntleigh

Universal Load Cell

FEATURES

- Capacities 50 to 10000 kg (50 to 20k lbs)
- Nickel-plated steel construction
- Certified to NTEP class III 3000d and class IIIL 10000d
- Suitable for compression and tension applications
- Trimmed output versions available
- Sealing: IP65
- **Optional**
  - FM approved for use in potentially explosive atmospheres

APPLICATIONS

- Suspended hoppers
- Overhead track scales
- Force measurement

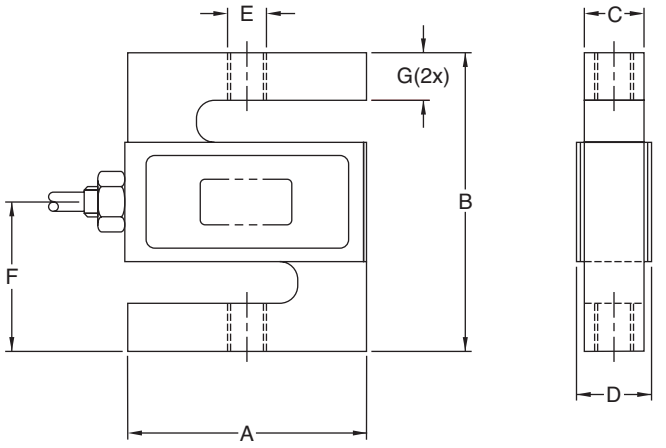
DESCRIPTION

The Model 363 is a multi-purpose nickel-plated S-Type load cell which can be used in tension or compression.

This product is suitable for a wide range of hybrid scales, overhead track scales, belt scales, and process weighing applications.

Reliable sealing is ensured by the proprietary TRANSEAL potting compound and additional mechanical protection of the strain gage area.

OUTLINE DIMENSIONS in millimeters



Cable specifications
Cable length: 6m

Excitation +	Red
Excitation –	Black
Output +	Green
Output –	White
Shield	Transparent

Cable screen is not connected to the load cell body.

Cap (kg)	50, 100	250, 500	1000	2500	5000	7500	10000
Cap (lbs)	**50–300**	**500–1.5k**	**2k, 2.5k**	**3k*, 5k**	**10k**	**15k**	**20k**
A	50.8	50.8	50.8	76.2	74.7	87.4	112.8
B	61.0	61.0	61.0	99.1	99.1	139.7	177.8
C	11.7	18.0	24.4	24.4	30.7	37.1	42.9
D_{max}	16.5	22.9	29.2	29.2	35.6	41.4	47.8
E (kg)	M8x1.25 - 6H	M12x1.75 - 6H		M20x1.5 - 6H		M24x2 - 6H	M30x2 - 6H
E (lbs)	¼ - 28UNF - 2B	½ - 20UNF - 2B		¾ - 16UNF - 2B		1 - 14UNS - 2B	1¼ - 12UNF - 2B
F	30.5	30.5	30.5	49.5	49.3	69.9	88.9
G	8.9	8.9	8.9	14.0	15.7	22.4	31.8

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Universal Load Cell

SPECIFICATIONS			
PARAMETER	**VALUE**		**UNIT**
Standard capacities (E_{max})	50, 100, 250, 500, 1000, 2500, 5000, 7500, 10000		kg
Standard capacities (E_{max})	50, 75, 100, 150, 200, 250, 300, 500, 750, 1k, 1.5k, 2k, 2.5k, 3k, 5k, 10k, 15k, 20k		lbs
Accuracy class per NTEP	NTEP IIIL	Non-Approved	
Maximum no. of verification intervals (n)	10000		mV/V
Rated output—R.O.	3.3±0.3		mV/V
Rated output—R.O. (trimmed option)	3.0±0.0075		mV/V
Zero balance	1.0		±%FSO
Combined error	0.0200	0.05	±%FSO
Non-repeatability	0.0100	0.0200	±%FSO
Minimum dead load output return	0.0500		±% applied load
Creep error (30 minutes)	-	0.0600	±% applied load
Creep error (20 minutes)	0.0030	0.0200	±% applied load
Temperature effect on min. dead load output	0.0090	0.0250	±% FSO/5°C
Temperature effect on sensitivity	0.0072	0.0250	±% applied load/5°C
Minimum dead load	0		% E_{max}
Maximum safe overload	150		% E_{max}
Ultimate overload	300		% E_{max}
Maximum safe side load	100		% E_{max}
Excitation, recommended	10		VDC or VAC RMS
Excitation, maximum	15		VDC or VAC RMS
Input impedance	390±15		Ω
Output impedance	350±3.5		Ω
Insulation resistance	≥5000		MΩ
Compensated temperature range	–10 to +40		°C
Operating temperature range	–40 to +80		°C
Storage temperature range	–40 to +90		°C
Element material	Nickel-plated alloy steel		
Sealing	IP65		

FSO—Full Scale Output

All specifications subject to change without notice.

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