

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

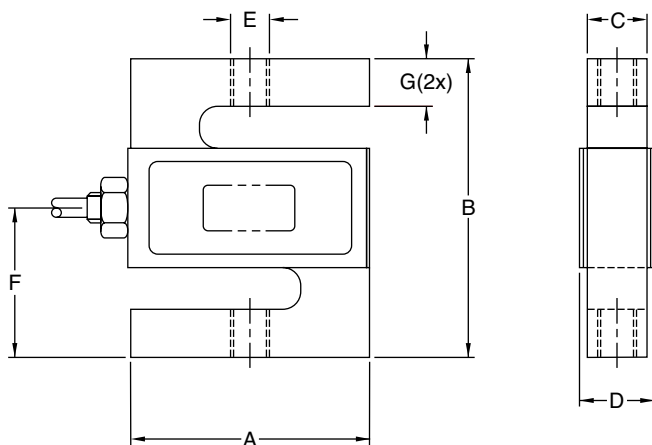
The Model 363 is a multi-purpose nickel-plated S-Type load cell which can be used in tension or compression.



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
Dmax	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

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 III L 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.

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase.

To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.