

## Universal Load Cell

### FEATURES

- Capacities: 50 to 10,000 kg (50 to 20,000 lbs)
- Stainless steel construction
- Suitable for compression and tension applications
- Trimmed output versions standard
- Sealing: IP67
- Certified to OIML R-60, 3000d, NTEP class III, 10000 divisions
- **Optional**
  - FM approved for use in potentially explosive atmospheres



### APPLICATIONS

- Suspended hoppers
- Overhead track scales
- Force measurement

### DESCRIPTION

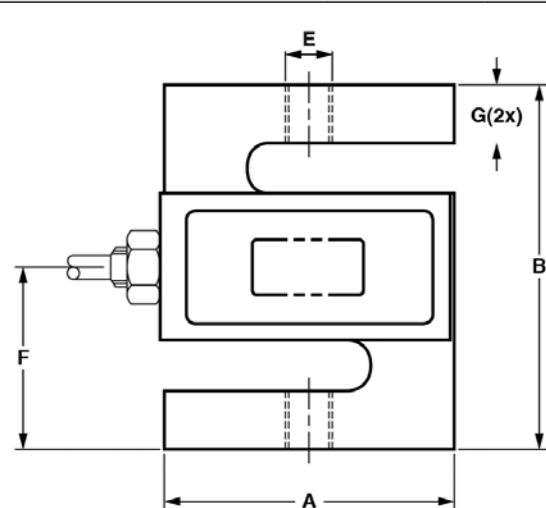
The Model 9363 is a multipurpose stainless steel S-type load cell which can be used in tension or compression.

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.

This product meets the stringent Weights and Measures requirements throughout Europe and the USA.

### 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, 100, 200, 300	500-1.5k	2k, 2.5k	3k*, 5k	10k	15000	20000
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)	M8 x 1.25-6H	M12 x 1.75-6H		M20 x 1.5-6H8		M24 x 2-6H	M30 x 2-6H
E (lbs)	1/4-28UNF-2B	1/2-20UNF-2B		3/4-16UNF-2B		1"-14UNS-2B	1 1/4-12UNF-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

\*3k lb version has 1/2-20UNF-2B holes.

### Universal Load Cell

SPECIFICATIONS				
PARAMETER	VALUE			UNIT
Standard capacities (E <sub>max</sub> )	50, 100, 250, 500, 1000, 2500, 5000, 7500, 10000*			kg
Standard capacities (E <sub>max</sub> )	50, 75, 100, 150, 200, 250, 300, 500, 750, 1k, 1.5k, 2k, 3k, 5k, 10k, 15k, 20k			lbs
Accuracy class per OIML R-60 / NTEP	NTEP IIIIL	Non-Approved	OIML C3	
Maximum no. of verification intervals (n)	10000	D3	3000	
Minimum verification intervals (V <sub>min</sub> )			E <sub>max</sub> /9000	
Rated output (=FS)	3.0			mV/V
Rated output tolerance	0.0075			±mV/V
Zero balance	1.0			±% FSO
Combined error	0.0200	0.0300	0.0200	±% FSO
Non-repeatability	0.0100	0.0100	0.0100	±% FSO
Minimum dead load output return		0.0300	0.0165	±% applied load
Temp. effect on min. dead load output	(0.001)	(0.0015)	0.0140	±% FSO/5°C (1°F)
Temperature effect on sensitivity	(0.0008)	(0.0008)	0.0055	±% applied load/5°C (1°F)
Maximum safe overload	150			% E <sub>max</sub>
Ultimate overload	250			% E <sub>max</sub>
Excitation voltage	5 to 12			V
Maximum excitation voltage	15			V
Input resistance	390±15			Ω
Output resistance	350±3.5			Ω
Insulation resistance	≥5000			MΩ
Compensated temperature range	14 to +104°F	-10 to +40		°C
Operating temperature range	-65 to +200°F	-40 to +80		°C
Element material (DIN)	Stainless steel			
Sealing (DIN 40.050)	IP67			

\* 10000 kg is not OIML approved

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](http://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.