

# Model 3420/3421

Tedea-Huntleigh

## Alloy Steel Shear Beam Load Cell

#### FEATURES

- Capacity range: 5,000-10,000 lbs
- Steel and stainless steel construction
- NTEP approved
- IP67 protection
- Optional

• FM approval available

#### APPLICATIONS

- Low profile platforms
- · Pallet truck weighing
- Tank and silo weighing

#### DESCRIPTION

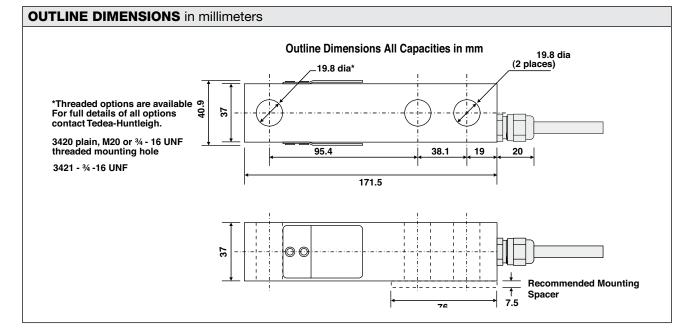
Model 3420 is a low profile shear beam load cell designed for high accuracy platform scales, pallet scales and process weighing applications.

It has a high immunity to shock or side loading, and is approved to NTEP standards. For hazardous environments this load cell is available with Factory Mutual approval.



Nickel plating and full environmental sealing assure long-term reliability. A stainless steel option is available for use in harsh or corrosive environments.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension can be achieved by feeding this voltage into the appropriate electronics.



### Model 3420/3421

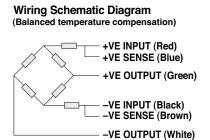
Tedea-Huntleigh

### VPGTransducers Cettron • Revere • Sensortronics • Tedea-Huntleigh

### Alloy Steel Shear Beam Load Cell

SPECIFICATIONS			
PARAMETER	VALUE		UNIT
Rated capacity-R.C. (Emax)	5000, 7500, 10000		lbs
NTEP/OIML accuracy class	NTEP	Non-Approved	
Maximum no. of intervals (n)	3000 single 5000 multiple	3000	
Y = E <sub>max</sub> /V <sub>min</sub>	6666	10000	
Rated output – R.O.	3.0		mV/V
Rated output tolerance	0.1		±% of rated output
Zero balance	2		±% of rated output
Zero return, 30 min.	0.0250	0.0170	±% of applied load
Total error (per OIML R60)	0.0200	0.0200	±% of rated output
Temperature effect on zero	0.0023	0.0023	±% of rated output/°C
Temperature effect on output	0.0010	0.0010	±% of applied load/°C
Temperature range, compensated	-10 to +40		°C
Temperature range, safe	–20 to +70		°C
Maximum safe central overload	150		% of R.C.
Ultimate central overload	300		% of R.C.
Excitation, recommended	10		VDC or VAC RMS
Excitation, maximum	15		VDC or VAC RMS
Input impedance	385±10		Ω
Output impedance	351±5		Ω
Insulation resistance	>2000		ΜΩ
Cable length	3.0m-3420 20 ft3421		
Cable type	6-wire, braided, polyurethane, floating screen		Standard
Construction	Nickel-plated alloy steel		
Environmental protection	IP67		
Recommended torque	205		N*m

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.



 LOADCELLS
 PRESSURE SENSORS
 ELECTRONICS

 Meer en Duin 64b
 Phone
 :+31 (0)88-4224440

 2163 HC Lisse
 Fax
 :+31 (0)88-4224440

 The Netherlands
 Email
 :info@stekon.nl