Revere



Single Ended Load Beam



DESCRIPTION

The SHBxR is a fully weld-sealed stainless steel bending beam type load cell.

This product is suitable for low capacity platform scales, packaging machines, hybrid scales and process weighing.

Fully welded construction and water block cable-entry ensure that this product can be used successfully in harsh environments found in the food, chemical and allied industries.

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

FEATURES

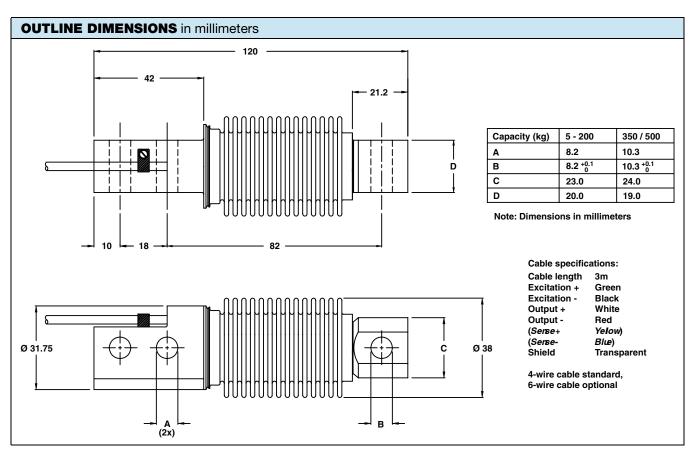
- Capacities: 5 500kg
- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d and NTEP class IIIL, 10000 divisions
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells

OPTIONAL FEATURES

 ATEX and FM certified versions are available for use in potentially explosive atmospheres

APPLICATIONS

- Platform scales
- · Belt scales
- · Packaging machines
- Silo/hopper weighing





Single Ended Load Beam

PARAMETER	VALUE					UNIT
Standard capacities (E _{max})	5 10 20 30 50 100 200 350 500 (1) 100, 200				100, 200, 350, 500 ⁽²⁾	kg
Accuracy class according to OIML R-60 /NTEP	NTEP IIIL	Non- Approved	C3	C4	C3MI7.5	
Max. no. of verfication intervals	10000		3000	4000	3000	
Min. verification interval (V _{min} =E _{max} /Y)			E _{max} /15,000	E _{max} /15,000	E _{max} /15,000	
MDLOR (Z=E _{max} /2*DR)					7500	
Rated output (=S)	2					mV/V
Rated output tolerance	0.02					±mV/V
Zero balance	1.0					±% FSO
Combined error	0.0200	0.05000	0.0200	0.0170	0.0200	±% FSO
Non-repeatability	0.0100	0.0200	0.0100	0.0090	0.0100	±% FSO
Minimum dead load output return	0.0250	0.0500	0.0167	0.0125	0.0067	±% applied load
Creep error (30 minutes)		0.0600	0.0245	0.0184	0.0245	±% applied load
Creep error (20 - 30 minutes)	0.0300	0.0500				±% applied load
Temp. effect on min. dead load output	(0.0008)	0.0250	0.0047	0.0047	0.0047	±% FSO/5°C (/°F)
Temperature effect on sensitivity	(0.0010)	0.0250	0.0050	0.0045	0.0050	±% applied load/5°C (/°F
Minimum dead load	0					%E _{max}
Maximum safe over load	150					%E _{max}
Ultimate over load	300					%E _{max}
Maximum safe side load	100					%E _{max}
Deflection at E _{max}	0.30±0.03					mm
Excitation voltage	5 to 12					V
Maximum excitation voltage	15					V
Input resistance	460±50					Ω
Output resistance	350±3.5					Ω
Insulation resistance	≥5000					ΜΩ
Compensated temperature range	-10 to +40					°C
Operating temperature range	-40 to +80					°C
Storage temperature range	-40 to +90					°C
Element material (DIN)	Stainless steel 1.4542					
Sealing (DIN 40.050 / EN60.529)	IP66 and IP68					
SC-Version (current calibration)	Standard					
Recommended torque on fixation bolts	23 (70 for 350/500kg)					N*m

Notes

(1) 5 & 10kg capacities are not approved by NTEP. 5 kg is not approved by OIML.

FSO - Full Scale Output

SC-version: The rated output and the output resistance are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

⁽²⁾ $D_{max} = 0.75 * E_{max}$

Legal Disclaimer Notice



Vishay Precision Group

Disclaimer

All 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, "Vishay Precision Group"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay Precision Group disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay Precision Group's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

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

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay Precision Group products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay Precision Group for any damages arising or resulting from such use or sale. Please contact authorized Vishay Precision Group 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.

Document Number: 63999 www.vishaypg.com Revision: 22-Feb-10