Revere



## **Universal Load Cell**



#### **FEATURES**

- Capacities: 50 5000kg, 100 10Klbs
- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- · Certified to OIML R-60, 3000d
- Integrated overload stop (50 500kg)
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells

#### **OPTIONAL FEATURE**

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

#### **DESCRIPTION**

The BSP is a stainless steel S-type load cell that can be used in either tension or compression.

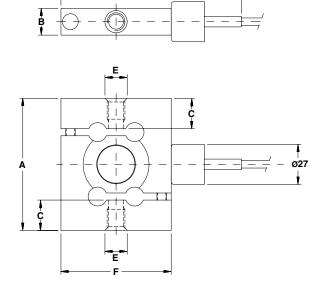
This product is suitable for a wide range of hybrid scales, overhead track scales, belt scales and process weighing applications. The fully welded construction and water block cable entry ensure that this product can be used successfully in the harsh environments found in the food, chemical and allied process industries.

This product fully meets the stringent European Weights and Measures requirements through Europe.

#### **APPLICATIONS**

- Hybrid scales
- Process weighing
- · Belt checkweighers
- Dynamometers
- Material testing machines

#### **OUTLINE DIMENSIONS** in mm



Cable specifications:
Cable length: 10m

Excitation + Green
Excitation - Black
Output + White
Output - Red

Shield Transparent

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened. Tension applications result in a negative output signal.

Capacity (kg)	50, 125	250	500	1250	2500, 5000
Α	84.3	88.9	88.9	95.2	120.6
В	23.9	18.0	18.0	24.1	36.6
C thread	12.7	14.0	14.0	14.0	29.2
D	85.7	84.1	96.8	84.1	84.1
E	M8x1.25		M12x1		M24x2
F	63.5	61.9	74.6	61.9	61.9

Capacity (lb)	100, 250	500	1K	2.5K	5K, 10K
Α	3.32	3.50	3.50	3.75	4.75
F	2.48	2.44	2.94	2.44	2.44
В	0.94	0.71	0.71	0.95	1.44
D	3.36	3.32	3.81	3.31	3.31
E threads	3/8-24 UNF-3B	1/2-2	20 UNF	1-14 UNS-3B	



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### **SPECIFICATIONS**

PARAMETER		UNIT		
Standard capacities (E <sub>max</sub> )	50, 125,	kg		
Standard capacities (E <sub>max</sub> )	100, 250,	lbs		
Accuracy class according to OIML R-60 /NTEP	NTEP IIIL	Non-Approved	C3	
Max. no. of verfication intervals	10000		3000	
Min. verification interval (V <sub>min</sub> =E <sub>max</sub> /Y)			E <sub>max</sub> /10000	
Rated output (=S)	3 (2 for 2500 and 5000kg)			mV/V
Rated output tolerance	0.03 (0.02 for 2500 and 5000kg)			±mV/V
Zero balance		±% FSO		
Combined error	0.0200	0.0500	0.0200	±% FSO
Non-repeatability	0.0100	0.0200	0.0100	±% FSO
Minimum dead load output return		0.0500	0.0167	±% FSO
Creep error (30 minutes)		0.0600	0.0245	±% FSO
Creep error (20 - 30 minutes)	0.0300	0.0200		±% FSO
Temp. effect on min. dead load output	(8000.0)	0.0250	0.0070	±% FSO/5°C (/°F)
Temperature effect on sensitivity	(0.0010)	0.0250	0.0050	±% FSO/5°C (/°F)
Minimum dead load		%E <sub>max</sub>		
Maximum safe over load		%E <sub>max</sub>		
Ultimate over load		%E <sub>max</sub>		
Maximum safe side load		%E <sub>max</sub>		
Deflection at E <sub>max</sub>		mm		
Excitation voltage		V		
Maximum excitation voltage		V		
Input resistance		Ω		
Output resistance	350±3.5			Ω
Insulation resistance	≥5000			ΜΩ
Compensated temperature range	-10 to +40			°C
Operating temperature range		°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)				

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.

# **Legal Disclaimer Notice**



Vishay Precision Group

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