



Revere

# **Universal Load Cell**

#### **FEATURES**

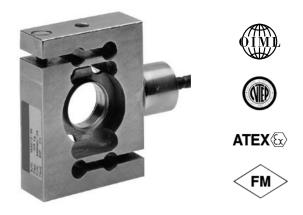
- Capacities: 50-5000 kg, 100-10k lbs
- · Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 3000d
- Integrated overload stop (50–500 kg)
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Optional
  - o ATEX and FM certified versions are available for use in potentially explosive atmospheres

#### **APPLICATIONS**

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

#### 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 Weights and Measures requirements throughout Europe.

OUTLINE DIMENSIONS in millimeters								
⊨= D=50_==	Cable specifications Cable length: 10m							
	Excitation + Green							
	Excitation – Black							
	Output + White							
	Output – Red							
	Shield	Tra	nsparer	nt				
E   <del></del>	Cable scre Performan Tension ap	ce may be	affecte	d if load	l cell cal	oles are	shortened. al.	
	Capacity (kg)	50, 125	250	50	00	1250	2500, 5000	
	A	84.3	88.9	88	8.9	95.2	120.6	
	В	23.9	18.0	18	8.0	24.1	36.6	
	C thread	12.7	14.0	14	.0	14.0	29.2	
$ A + - \left[ - \left( \right) + - \right] \left[ \right] 027 $	D	85.7	84.1	96	-	84.1	84.1	
	E	M8x1		M12			M24x2	
	F	63.5	61.9	74	.6	61.9	61.9	
	Capacity (lb)	100, 2	50	500	1k	2.5k	5k, 10k	
	A	3.32	2	3.50	3.50	3.75	4.75	
	F	2.48	3	2.44	2.94	2.44	2.44	
<b>⊨ F →</b>	В	0.94		0.71	0.71	0.95	1.44	
	D	3.36		3.32	3.81	3.31	3.31	
	E threads	3/8-24UNF-3B		1/2-20 UNF-3B			1-14 UNS-3B	

**Model BSP** 

Revere

### VISHAY PRECISION GROUP

### Universal Load Cell

SPECIFICATIONS				
PARAMETER		UNIT		
Standard capacities (E <sub>max</sub> )	50, 125,	250, 500, 1250, 25	kg	
Standard capacities (E <sub>max</sub> )	100, 250, 5	500, 1000, 2500, 5	lbs	
Accuracy class according to OIML R-60 /NTEP	NTEP IIIL	Non-Approved	C3	
Maximum number of verfication intervals	10000		3000	
Minimum verification interval = V <sub>min</sub> /E <sub>max</sub> /Y)	E <sub>max</sub> /10000			
Rated output (=S)	3 (2	for 2500 and 5000	mV/V	
Rated output tolerance	0.03 (0	.02 for 2500 and 5	± mV/V	
Zero balance		1.0	±% 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 minimum dead load output	(0.0008)	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 overload		% E <sub>max</sub>		
Ultimate overload		% 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	MΩ	
Compensated temperature range		°C		
Operating temperature range		°C		
Storage temperature range		°C		
Element material (DIN)	S			
Sealing (DIN 40.050 / EN60.529)				
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.

All specifications subject to change without notice.



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Vishay Precision Group

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