Revere



Digital Shear Beam Load Cell



FEATURES

- Capacities: 0.5, 1, 2, and 5t
- Digital output via RS-485 or RS-422 interface
- Stainless steel construction with water block cable-entry
- · Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 6000d
- · Internal diagnostics
- 240000 counts resolution
- Maximum transmission distance 1200m

OPTIONAL FEATURE

• Multi-interval and multiple-range versions available

DESCRIPTION

The SBC is a stainless steel, single ended, shear beam load cell with a digital output signal.

This digital output enables the user to communicate with each SBC independently of the others in the system, thus offering advantages in system setup, system control, corner correction, fault finding and load cell replacement.

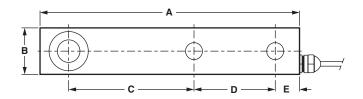
The fully welded construction and water block cable-entry ensure successful use in harsh environments. Applications of the SBC include medium capacity platform scales, pallet scales, overhead track scales and process weighing applications.

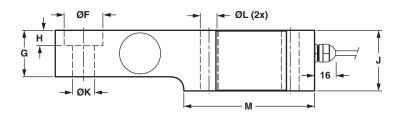
This product meets the stringent Weights and Measures requirements throughout Europe.

APPLICATIONS

- · Platform scales
- Belt scales
- · Overhead track scales
- · Silo hopper weighing

OUTLINE DIMENSIONS in mm





Cable specifications:

Cable length: 5 meters

Excitation + Green

Excitation - Black

Rx + Yellow

Rx - Blue

Tx - White

Tx + Red

Shield Transparent

Note: Dimensions are in millimeters

Capacity (t)	0.5 - 2	5	10
Α	203.2	235.0	235.0
В	36.5	47.5	55.0
С	98.4	123.8	123.8
D	63.5	66.7	66.7
E	19.1	20.6	20.6
ØF	30.2 +0.2	41.3 +0.2	41.3 +0.2
G	36.5	47.6	56.0
Н	11.9	15.8	15.8
J	47.6	69.9	69.9
ØK	17.5 H11	25.5 H11	25.5 H11
ØL	14.0	22.0	25.0
М	101.6	111.2	111.2



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SPECIFICATIONS

PARAMETER	VALUE				UNIT
Standard capacities (E _{max})		0.5, 1, 2, 5			
Accuracy class according to OIML R-60	C1	C3	C5	C6	
Maximum no. of verfication intervals (n)	1000	3000	5000	6000	
Minimum verification interval (V _{min} =E _{max} /Y)	E _{max} /7000	E _{max} /15000	E _{max} /15000	E _{max} /15000	
Minimum utilisation	14.3	30	33.3	40	%
Minimum verification interval, type MR		E _{max} /25000	E _{max} /25000	E _{max} /25000	
Rated output (=S)		counts			
Tolerance on rated output	200				±counts
Zero balance		200			
Combined error	0.0300	0.0200	0.0140	0.0115	±% FSO
Non-repeatability	0.0200	0.0100	0.0080	0.0060	±% FSO
Minimum dead load output return	0.0500	0.0167	0.0100	0.0083	±% applied load
Creep error (30 minutes)	0.0490	0.0245	0.0147	0.0123	±% applied load
Temp. effect on min. dead load output	0.0100	0.0070	0.0045	0.0045	±% FSO/5°C
Temperature effect on sensitivity	0.0085	0.0050	0.0030 0 +40	0.0025	±% applied load/5°C
Compensated temperature range		°C			
Operating temperature range		°C			
Storage temperature range		°C			
Maximum safe over load		%E _{max}			
Ultimate over load		%E _{max}			
Maximum safe side load		%E _{max}			
Deflection at E _{max}		mm			
Excitation voltage		Vdc			
Maximum excitation voltage		V			
Maximum current consumption		mA			
Maximum current (internal short circuit)		mA			
Insulation resistance		MΩ			
Element material (DIN)					
Sealing (DIN 40.050 / EN60.529)					
Signal update per second					
Baudrate		Bits/s			
Start bits	1 7				
Data bits					
Stop bits					
Parity					
Maximum transmission cable length		m			
Data transmission interface	RS485/422-full duplex				

Model SBC

Rever

Digital Shear Beam Load Cell



SPECIFICATIONS cont.

PARAMETER		UNIT		
Standard capacities (E _{max})		ton		
Accuracy class according to OIML R-60	C3MI10	C4MI10	C5MI10	
Maximum no. of verfication intervals (n)	3000	4000	5000	
Minimum verification interval (V _{min} =E _{max} /Y)	E _{max} /15000	E _{max} /15000	E _{max} /25000	
Minimum utilisation	20	26.7	20	%
Minimum dead load output return DR	0.0050	0.0050	0.0050	±% applied load
Temp. effect on min. dead load output	0.0045	0.0045	0.0032	±% FSO/5°C





Vishay Precision Group

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