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

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

This product meets the stringent Weights and

Measures requirements throughout Europe.

process weighing applications.

- 240000 counts resolution
- Maximum transmission distance 1200m

OPTIONAL FEATURE

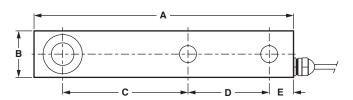
• Multi-interval and multiple-range versions available

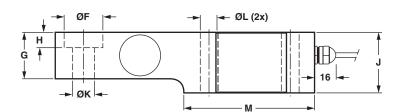
DESCRIPTION

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.

OUTLINE DIMENSIONS in mm





APPLICATIONS

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

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	
А	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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Model SBC

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SPECIFICATIONS

PARAMETER	VALUE				UNIT
Standard capacities (E _{max})	0.5, 1, 2, 5				ton
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)	240000				counts
Tolerance on rated output	200				±counts
Zero balance	200				±counts
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	0.0025	±% applied load/5°C
Compensated temperature range		°C			
Operating temperature range	-40 to +80				°C
Storage temperature range	-40 to +90				°C
Maximum safe over load		%E _{max}			
Ultimate over load	300				%E _{max}
Maximum safe side load	100				%E _{max}
Deflection at E _{max}	0.5 max				mm
Excitation voltage	12.5 to 18				Vdc
Maximum excitation voltage	15				V
Maximum current consumption	80			mA	
Maximum current (internal short circuit)	150			mA	
Insulation resistance	>5000				MΩ
Element material (DIN)	Stainless steel 1.4542				
Sealing (DIN 40.050 / EN60.529)	IP66 and IP68				
Signal update per second	25				
Baudrate	9600				Bits/s
Start bits	1				
Data bits	7				
Stop bits	1				
Parity	Odd				
Maximum transmission cable length	1200				m
Data transmission interface					

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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



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