Model SCC

Vishay Revere

Digital Compression Load Cell

FEATURES

- Capacities: 10 - 100 ton
- Digital output via RS-485 or RS-422 interface
- Low profile, multi-column, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d
- Multiple-range versions available
- Internal diagnostics and lightning protection
- 240,000 counts resolution
- Maximum transmission distance 1200m

DESCRIPTION

The SCC is a multi-column, low profile, stainless steel, compression load cell with a digital output signal.

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

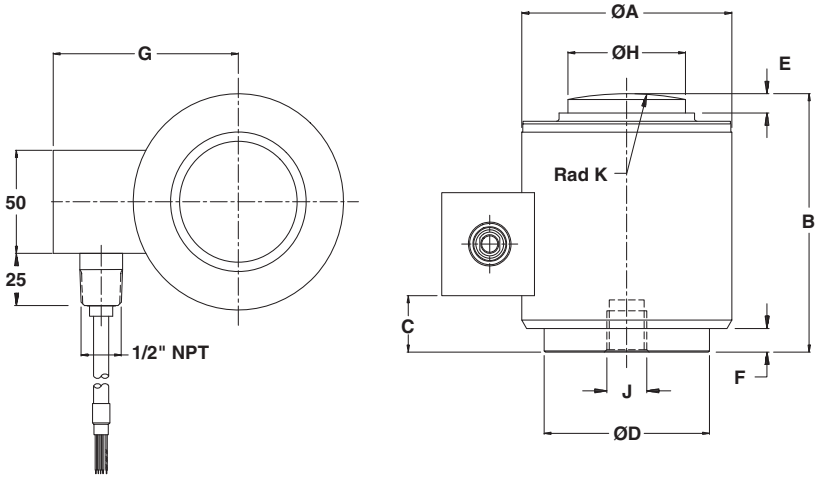
Suitable applications for this product include various types of road and rail weighbridges, and process weighing.

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

APPLICATIONS

- Weighbridges
- Silo hopper weighing

OUTLINE DIMENSIONS in millimeters



Cable specifications:

Cable length: 10 meters for 10t
20 meters all others

Excitation +	Green
Excitation -	Black
Rx +	Yellow
Rx -	Blue
Tx +	Red
Tx -	White
Shield	Clear

Note: Dimensions are in millimeters

Capacity (t)	10, 25	40, 60	100
A	73.0	105.0	152.4
B	82.5	127.0	184.2
C	7.0	29.0	67.5
D	58.0	82.5	123.8
E	6.5	8.0	23.6
F	1.8	11.0	21.8
G	79.5	99.0	124.8
H	31.8	58.7	79.2
J	M12x1.75 (11 Deep)	M20x2.5 (20 Deep)	
K Rad	152.0	152.0	432.0

Rabbit Control Systems

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SPECIFICATIONS

PARAMETER	VALUE			UNIT
Standard capacities (E_{max})	10, 25, 40, 60, 100			ton
Accuracy class according to OIML R-60	**CC**	**C3**	**C4**	
Maximum no. of verfication intervals (n)		3000	4000	
Minimum verification interval ($V_{min}=E_{max}/Y$)		E_{max}/10000	E_{max}/10000	
Minimum verification interval, type MR		E_{max}/20000	E_{max}/20000	
Rated output (=S)	240000			counts
Tolerance on rated output	200			±counts
Zero balance	200			±counts
Combined error	0.0500	0.0200	0.0173	±% FSO
Non-repeatability	0.0200	0.0100	0.0090	±% FSO
Minimum dead load output return	0.0500	0.0167	0.0125	±% applied load
Creep error (30 minutes)	0.0600	0.0245	0.0184	±% applied load
Temp. effect on min. dead load output	0.0250	0.0070	0.0070	±% FSO/5°C
Temp. effect on min. dead load output MR		0.0035	0.0035	±% FSO/5°C
Temperature effect on sensitivity	0.0250	0.0050	0.0040	±% applied load/5°C
Compensated temperature range	-10 to +40			°C
Operating temperature range	-40 to +80			°C
Storage temperature range	-40 to +90			°C
Maximum safe over load	150			%E_{max}
Ultimate over load	400			%E_{max}
Maximum safe side load	10			%E_{max}
Deflection at E_{max}	0.36 max			mm
Excitation voltage	12.5 to 18.0			Vdc
Maximum excitation voltage	15			Vdc
Maximum current consumption	80			mA
Start up current	150			mA
Insulation resistance	>5000			MΩ
Element material (DIN)	Stainless steel 1.4542			
Sealing (DIN 40.050 / EN60.529 / IEC 529)	IP66 and IP68			
Signal update per second	25			
Baudrate	9600			Bits/s
Transmission type	Asynchronous serial transmission			
Start bits	1			
Data bits	7			
Stop bits	1			
Parity	Odd			
Maximum transmission cable length	1200			m
Data transmission interface	RS485/422-full duplex			

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