Cardinal LOAD CELLS

SERIES SCA - LOAD CELLS FOR COMPRESSION WEIGHING



- Capacities 22680 kg, 45360 kg, and 54430 kg
- Hermetically sealed (IP67)
- Stainless steel construction
- 9 m integral shielded cable
- 2 year warranty

The heavy capacity series of compression load cells are ideal for multiple load cell compression applications such as motor truck scales, railroad track scales and heavy duty tank weighing systems. These compression load cells are available in 22680 kg, 45360 kg and 54430 kg

Load cells are fabricated from stainless steel to provide the ultimate in protection when caustic, corrosive or wet environments are encountered. Load cells are hermetically sealed for absolute water protection (IP67).

Each load cell is furnished with stainless steel load buttons on each end, and a 9 m integral multiconductor cable secured by a strain relief seal.

SPECIFICATIONS

| M | lec | han | ical | Data |
|---|-----|-----|------|------|
| | | | | |

| Rated Capacity, $(R.C.)E_{max}$. | 22680, 45360 & 54430 kg |
|-----------------------------------|-------------------------|
| Minimum Dead Load | 250, 500 kg |
| Safe Load Limit | 150% R.C. |
| Ultimate Load | 300% R.C. |
| Deflection at R.C | 0.33 mm |
| Spring Element Material | 17-4 PH |
| Net Weight | 6 kg |
| | |

Certificate Data

| Oci tilloate Data | | | | |
|----------------------------------|--------------|-------------------|--|--|
| Issuing Body | NTEP | OIML | | |
| Certificate Number | 89-042A3 | R60/1991-DK-97.04 | | |
| | | rev 1 | | |
| Accuracy Class | IIIL | C3 | | |
| Maximum Number of Loa | d | | | |
| Cell Intervals, n _{max} | 10000 | 3000 | | |
| Single/Multiple | M | | | |
| Humidity Symbol | | .CH | | |
| Minimum Load Cell | | | | |
| Verification Interval V_{\min} | | | | |
| OIML | 2.3, 4.5 & 5 | .4 kg | | |
| NTEP | 1.4 & 2.8 kg | 1 | | |

| E | lec | tri | cal | D | ata |
|---|-----|-----|-----|---|-----|
| | | | | | |

| Rated Output Excitation Voltage, | 2mV/V |
|-------------------------------------|------------------|
| Recommended | 10 VDC |
| Excitation Voltage, | |
| Maximum | 15 VDC |
| Cable Length | 9m |
| Terminal Resistance | |
| Excitation | 1150 ± 12 ohms |
| Signal | 1050 ± 10 ohms |
| Zero Load Output | ± 1% R.C. |
| Insulation Resistance | >5000 megohms at |
| | 50 VDC |

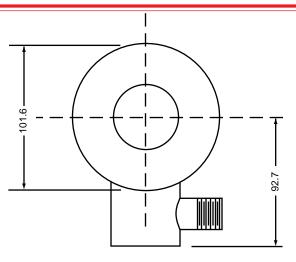
Environmental Data

| Temperature Compensation |
|---|
| Range10° to +40°C |
| Operating Temperature Range29° to +93°C |
| Construction & Protection |
| Code |
| Barometric Pressure Effect |
| on Zero Load Output<1 v (min)/1kPa |

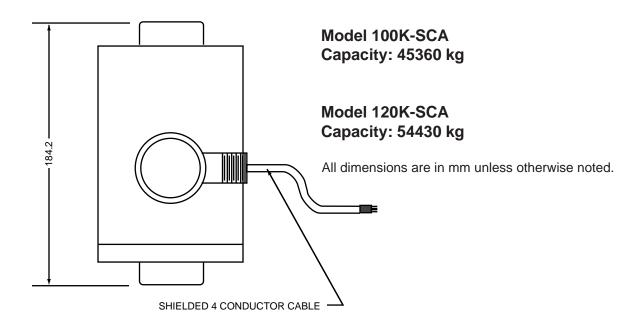
Color Code

| + Excitation | Green | - Signal | White |
|--------------|-------|----------|-------|
| - Excitation | Black | + Signal | Red |

Cardinal COMPRESSION LOAD CELLS



Model 50K-SCA Capacity: 22680 kg







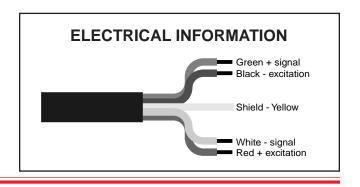
The SCA Series Load Cells meet all requirements of OIML R60 and has been issued OIML certificate no. R60/1991-DK-97.04 rev1.



The SCA Series Load Cells meet all requirements of Handbook 44, issued by the National Institute of Standards and Technology and have been issued the NTEP Certificate of Conformance No. 89-042 A3.



Cardinal Scale reserves the right to improve, enhance and modify features and specifications without prior notice.





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