# KSR SINGLE COLUMN COMPRESSION CELL




## DESCRIPTION:

The KSR is a sealed, single column, compression load cell.

This product is suitable for high capacity platform scales and level control or process weighing in general.

A reliable sealing and mechanical protection of the strain gauge area is ensured by the use of stainless steel diaphragms and a housing which are cemented to the measuring element.

## FEATURES:

- Low profile design
- Sealing: IP66 (EN 60.529)
- Trimmed output ensures easy and accurate parallel connection of multiple load cells
- Specially designed mounting arrangements are available for vessel weighing
- **CAPACITIES: 6 → 280t**

Revere Transducers Europe
*an SI Technologies company*

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# KSR: SPECIFICATIONS

| | | | |
|---|---|---|---|
| Standard Capacities (=$E_{max}$) | t | 6, 13, 28, 60, 130, 280 | |
| Accuracy According to Type Designation | | R2 | R1 |
| Combined Error | %S | ≤ ±0.2000 | ≤ ±0.1000 |
| Hysteresis | %S | ≤ ±0.1000 | ≤ ±0.0500 |
| Minimum Dead Load Output Return [1] | %S | ≤ ±0.0700 | ≤ ±0.0500 |
| Creep Error (30 minutes) [1] | %S | ≤ ±0.0800 | ≤ ±0.0600 |
| Creep Error (20 - 30 minutes) [1] | %S | ≤ ±0.0200 | ≤ ±0.0150 |
| Temperature Effect on Min. Dead Load Output. | %S/5°C | ≤ ±0.2500 | ≤ ±0.2500 |
| Temperature Effect on Sensitivity | %S/5°C | ≤ ±0.2500 | ≤ ±0.2500 |
| Minimum Dead Load | %$E_{max}$ | 0 | |
| Maximum Safe Over Load | %$E_{max}$ | 120 | |
| Ultimate Overload (static and dynamic) | %$E_{max}$ | 300 | |
| Maximum Safe Side Load | %$E_{max}$ | 10 | |
| Deflection at $E_{max}$ | mm | 0.35/ 0.53/ 0.80/ 1.22/ 1.85/ 2.67 | |
| Excitation Voltage | V | 5→12 | |
| Maximum Excitation Voltage | V | 15 | |
| Rated Output (=S) | mV/V | 1.5 ±0.008 | |
| Zero Balance | %S | ≤ ±1.5 | |
| Input Resistance | Ω | ±275 | |
| Output Resistance | Ω | 245 ± 0.2 | |
| Insulation Resistance | MΩ | ≥50 | |
| Compensated Temperature Range | °C | -10...+60 | |
| Operating Temperature Range | °C | -20...+70 | |
| Storage Temperature Range | °C | -30...+80 | |
| Housing | | Tool steel, Epoxy coated, stainless steel diaphragms | |
| Sealing (EN 60.529 / IEC 529) | | IP66 | |

**1** Applies for the temperature range -10 to +60ºC

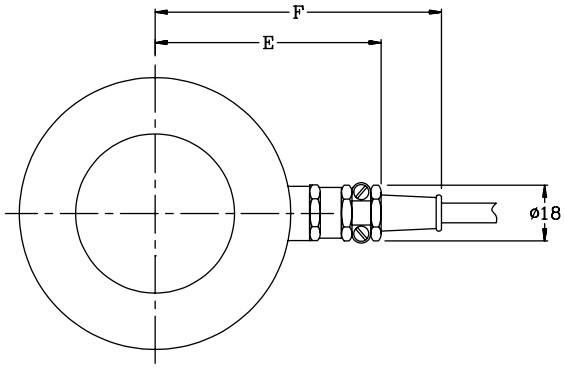
The correct mounting of the load cells is essential to ensure optimum performanceFurther information is available on request.

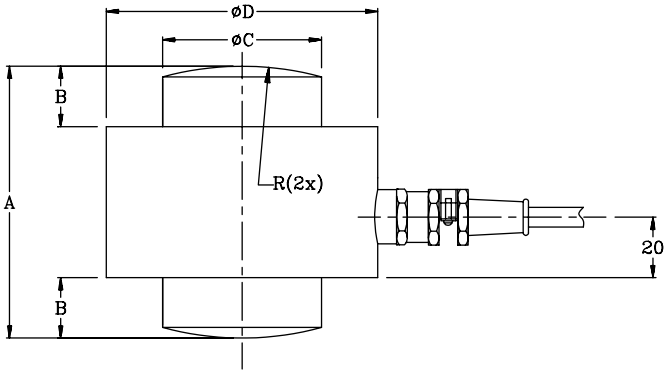
***Cable specifications:***

| | |
|---|---|
| Cable length | 10m (6t version: 5m. |
| Excitation+ | Red |
| Excitation - | White |
| Output+ | Black |
| Output - | Blue |
| Shield | Transparent / Yellow |

Cable screen is not connected to load cell body.

***Attention:***
Dimensions: mm.
All dimension tolerances according to ISO 2768m, unless otherwise specified.




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| $E_{max}$ | 6 | 13 | 28 | 60 | 130 | 280 |
|---|---|---|---|---|---|---|
| **A** | 56 | 68 | 74 | 90 | 116 | 170 |
| **B** | 8 | 12 | 14 | 20 | 26 | 45 |
| **C** | 16.7 | 24.5 | 36.0 | 52.7 | 77.5 | 114 |
| **D** | 45 | 55 | 64 | 90 | 121 | 165 |
| **E** | 52.5 | 57.5 | 62.0 | 75.0 | 90.5 | 112.5 |
| **F** | 71.5 | 76.5 | 81 | 94 | 109.5 | 131.5 |
| **R** | 50 | 66 | 72 | 100 | 125 | 183 |

*All specifications subject to change without notice*

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