

# **Single-Column Compression Cell**

#### **FEATURES**

- Capacities: 6 to 280 t
- 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

#### **APPLICATIONS**

- · Vessels weighing
- · High capacity platforms
- Tank and silo
- · Process weighing

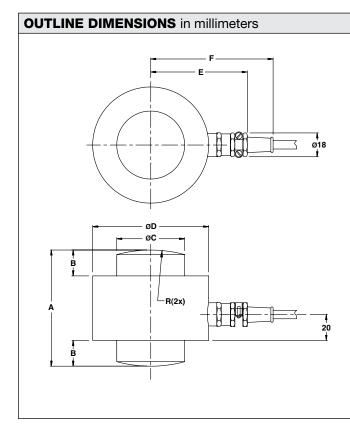
#### **DESCRIPTION**

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 gage area is ensured by the use of stainless steel diaphragms and a housing which are cemented to the measuring element.



E <sub>max</sub>	6	13	28	60	130	280
Α	56	68	74	90	116	170
В	8	12	14	20	26	45
С	16.7	24.5	36.0	52.7	77.5	114
D	45	55	64	90	121	165
Е	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

#### Cable specifications

Cable length: 10 m (6 t version: 5 m)

Excitation + Red Excitation - White Output + Black Output - Blue

Shield Transparent/Yellow

Cable screen is not connected to the

load cell body.



### Single-Column Compression Cell

SPECIFICATIONS								
PARAMETER	VAI	UNIT						
Standard capacities (E <sub>max</sub> )	6, 13, 28, 60, 130, 280		t					
Accuracy class according to type designation	Non-Approved – R2	Non-Approved—R1						
Rated output (FSO)	1.5		mV/V					
Rated output tolerance	0.008		±mV/V					
Zero balance	1.5		±% FSO					
Combined error	0.200	0.1000	±% FSO					
Minimum dead load output return	0.0700	0.0500	±% FSO					
Creep error (30 minutes)	0.0800	0.0600	±% FSO					
Creep error (20–30 minutes)	0.0200	0.0150	±% FSO					
Temperature effect on minimum dead load output	0.025	0.025	±% FSO/5°C					
Temperature effect on sensitivity	0.2500	0.2500	±% FSO/5°C					
Minimum dead load	(	0	% E <sub>max</sub>					
Maximum safe overload	120		% E <sub>max</sub>					
Ultimate overload	300		% E <sub>max</sub>					
Maximum safe side load	10		% E <sub>max</sub>					
Deflection at E <sub>max</sub>	0.35 / 0.53 / 0.80 / 1.22 / 1.85 / 2.67		mm					
Excitation voltage	5 to 12		V					
Maximum excitation voltage	15		V					
Input resistance	275±30		Ω					
Output resistance	245±0.2		Ω					
Insulation resistance	≥50		ΜΩ					
Compensated temperature range	-10 to +40		°C					
Operating temperature range	–20 to +70		°C					
Storage temperature range	−30 to +80		°C					
Element material (DIN)	Tool steel							
Finish	Epoxy painting							
Sealing (DIN 40.050 / EN60.529)	IP							

FSO-Full Scale Output

#### Mounting:

Correct mounting of the load cells is essential to ensure optimum accuracy and performance. Further information is available upon request.

All specifications subject to change without notice.



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