Type ZKSR Load Cell



Short Description

- Alloy steel IP66 compression load cell
- Epoxy coated
- Cable suitable for application with higher temperatures up to 130˚C
- Low profile
- Double bridge option from 13t and up
- 350t and 500t load cells are delivered with a connector for easy installation

Available Models

Capacity	Accuracy	Full Article Description
2.8t	G1/G2	ZKSR-G1/G2-2.8t-6B
6t	G1/G2	ZKSR-G1/G2-6t-6B
13t	G1/G2	ZKSR-G1/G2-13t-15B
28t	G1/G2	ZKSR-G1/G2-28t-15B
60t	G1/G2	ZKSR-G1/G2-60t-15B
130t	G1/G2	ZKSR-G1/G2-130t-20B
280t	G1/G2	ZKSR-G1/G2-280t-20B
350t	G1/G2	ZKSR-G1/G2-350t-25J
500t	G1/G2	ZKSR-G1/G2-500t-25J

Type ZKSR Load Cell

Technical Specifications ZKSR

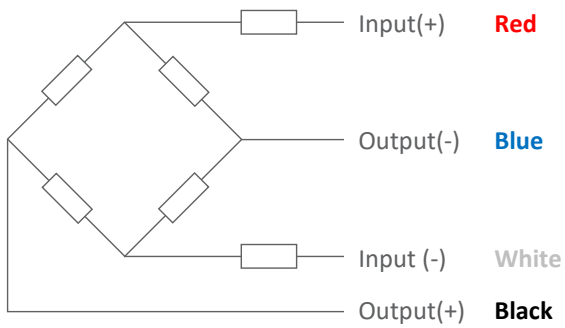
Accuracy Class		G1		G2	
Output Sensitivity (= FS)	mV/V	1.5 ± 0.008	1.5 ± 0.1	1.5 ± 0.008	1.5 ± 0.1
Maximum Capacity (E_{max})	t	2.8, 6, 13, 28, 60, 130, 280	350, 500	2.8, 6, 13, 28, 60, 130, 280	350, 500
Combined Error	%FS	≤± 0.10		≤± 0.20	
Hysteresis	%FS	≤± 0.10		≤± 0.20	
Creep Error (30 minutes)	%FS	≤± 0.060		≤± 0.080	
Creep Error (20 - 30 minutes)	%FS	≤± 0.015		≤± 0.020	
Minimum Dead Load Output Return	%FS	≤± 0.050		≤± 0.070	
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.50		≤± 0.50	
Temperature Effect on Sensitivity (STC)	%FS/10°C	≤± 0.50		≤± 0.50	
Zero Balance	%FS	≤± 1.5			
Safe Overload	%FS	150			
Ultimate Overload	%FS	300			
Excitation, Recommended Voltage	V	5 ~ 12			
Excitation, Maximum Voltage	V	15			
Input Resistance	Ω	275 ± 5 (840 ± 30 for 350t and 500t)			
Output Resistance	Ω	245 ± 0.2 (703 ± 5 for 350t and 500t)			
Insulation Resistance (50V)	MΩ	≥5000			
Compensated Temperature	°C	-10 ~ +40			
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-30 ~ +70			
Load Cell Weight	kg	2.8t-28t: ~2-3	60t: 4.8	130t: 7.0	280t: 17.1	350t: 35.5	500t: 61.2
Element Material		Alloy steel, epoxy coated			
Ingress Protection (acc. to EN 60529)		IP66			

Wiring

Features:

Cable type: Shielded, 4 conductor cable , conductor AWG 24
Cable diameter: Ø 6.5mm
Cable length: 2.8t – 6t: 6m, 13t – 60t: 15m, 130t – 280t: 20m, 350t – 500t: 25m
Cable jacket: Silicon Rubber
Shield not connected to element

4-Wire Connection Diagram

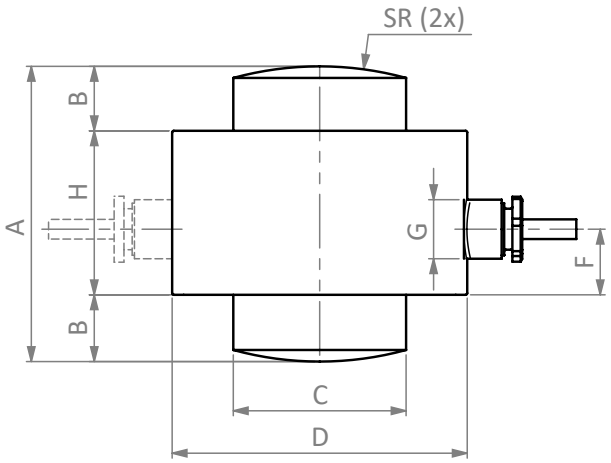


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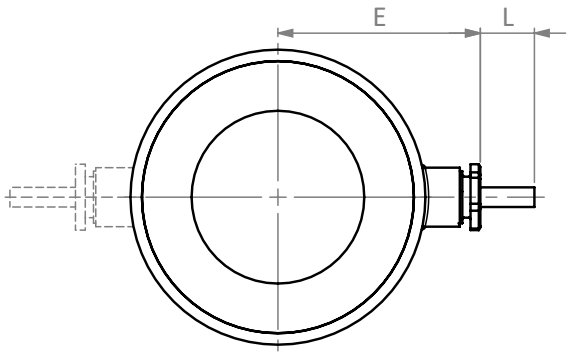
Dimensions in mm

2.8t – 280t

Front View

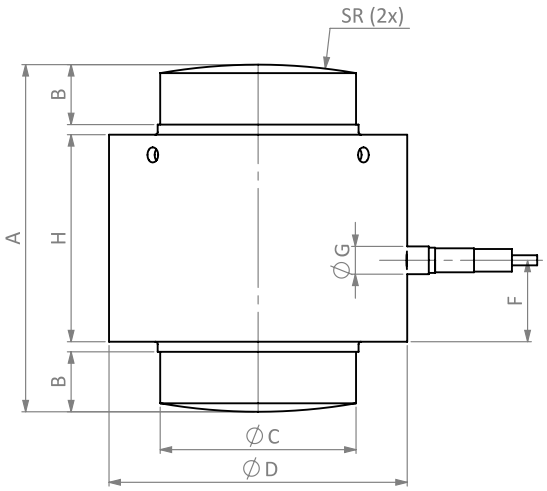


Top View

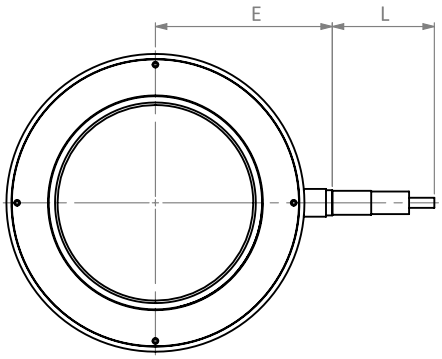


350t – 500t

Front View



Top View



Dimension Capacity	A	B	ØC	ØD	E	F	G	H	L	SR
2.8t, 6t[1]	56	8	16.7	45	40.5	20	18	40	6 m	50
13t	68	12	24.5	55	45.5	20	18	44	15 m	66
28t	74	14	36	64	50	20	18	46	15 m	72
60t	90	20	52.7	90	63	20	18	50	15 m	100
130t	116	26	77.5	121	78.5	20	18	64	20 m	125
280t	170	45	114	165	100.5	20	18	90	20 m	183
350t[2]	240	40	132	192	124	54.5	22	139	25 m	325
500t[2]	275	47.5	155	236	146	64.5	22	164	25 m	450

[1] 2.8t and 6t versions are not available with a double-bridge option.
[2] 350t and 500t versions are delivered with a connector instead of a cable gland.