V4A-A/V4A-S

IP68

Shear Beam

V4A-A/V4A-S – shear beam load cell

The V4A-A/V4A-S is a shear beam load cell designed for precise force and weight measurement in a variety of industrial applications. It is available in nickel-plated alloy steel or stainless steel (V4A-S), depending on environmental and operational requirements.

This model is suitable for both static and dynamic load measurement and features a wide capacity range with overload tolerance up to 150% of the rated load. It is commonly used in electronic platform scales, ground weighers, single-track scales, and hopper weighing systems.

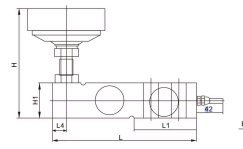
Thanks to its robust and compact design, the V4A-A is easy to install and transport. The durable construction ensures reliable performance across a wide range of temperatures and harsh industrial environments.

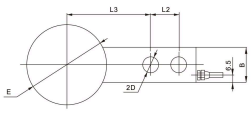
Specification

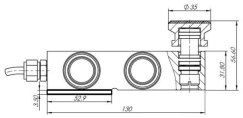
Rated load (Emax)	0.25~2.5t, 3~5t, 7.5~10t	Insulation resistance	≥5000MΩ
Sensitivity	3.0±0.006 % mV/V	Operating Temp Range	(-30 ~ +70)°C
Combined error	±0.02 % F.S; ±0.03 % F.S	Safe load limit	150% F.S
Creep/30min	±0.02 % F.S/30min	Ultimate overload	180% F.S
Zero balance	±1 % F.S	Recommend excitation	10 ~ 12V DC
TCO	±0.02 % F.S/10°C	Max excitation	15V DC
TC SPAN	±0.02 % F.S/10°C	Protection Class	IP67 (0.25~0.75t); IP68 (1~10t)
Input resistance	400±20Ω	Material	Alloy steel Stainless steel
Output resistance	352±3Ω	Cable	Length: 5m Diameter: ø5mm

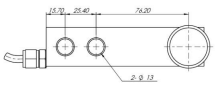
Main Dimensions

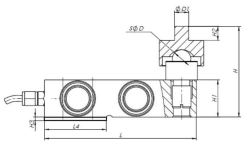
V4A-A/V4A-S

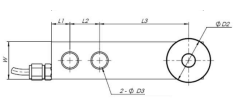












(t) Rated load	L	L1	L2	L3	L4	B	H	H1	H2	D	E
0.25~2.5	130	53.5	25.4	76.2	12.7	31.8	85-90	31.8	4	ø13	ø62
3~5	171.5	72.5	38.1	95.3	19	38.1	104-114	38.1	6	ø20	ø62
7.5~10	225.5	102	50.8	124	25.3	50.8	132-144	50.8	8	ø27	ø80

(t) Rated load	L	L1	L2	L3	L4	B	H	H1	H2	H3	D	D1	D2	D3
0.25~2.5	130	53.5	25.4	76.2	12.7	31.8	77.8	31.8	12	4	ø13	ø38	ø12	ø16
3~5	171.5	72.5	38.1	95.3	19	38.1	94.1	38.1	10	6	ø20	ø50	ø16	ø20
7.5~10	225.5	102	50.8	124	25.3	50.8	130	50.8	10	8	ø27	ø64	ø20	ø32

(t) Rated load	L	L1	L2	L3	L4	H	H1	H2	H3	W	D	D1	D2	D3
0.25~3	130	15.7	25.4	76.2	52.9	77.7	31.8	12	3.5	31.8	15.9	12	38	13
5	171.5	19.1	38.1	95.3	78.2	98.5	38.1	10	5	38.1	25.4	16	49	20
10	225.5	25.4	50.8	124	108.9	108.9	50.8		9	50.8	38.1		49	26