

Tension and compression load cell, S-type, up to 5,000 kg

with electrical output



Features

- Tension and compression load cell, S-type
- Made of alloy steel or stainless steel

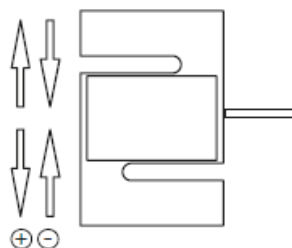
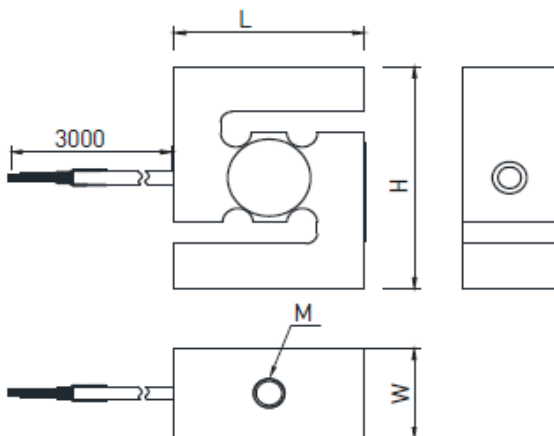
Measuring range

- 50 ... 5,000 kg

Applications

- Mainly used for testing instruments, pull and push dynamometer, hopper scales, crane scales and industrial weighing system

Drawing (Dimensions in mm)



Technical data

Model	F2802
Nominal load F_{nom} in kg	50, 100, 200, 500, 1,000, 2,000, 3,000, 5,000
Limit load	150% F_{nom}
Breaking load	200% F_{nom}
Hysteresis	0.03% of F.S.
Non-Linearity	0.03% of F.S.
Zero Balance	$\pm 2\%$ of F.S.
Repeatability	0.03% of F.S.
Creep, 30 min. at F_{nom}	0.03% of F.S.
Insulation	$\geq 5,000\text{M}\Omega / 100\text{VDC}$
Input resistance	$385 \pm 30\Omega$
Output resistance	$350 \pm 3\Omega$
Rated Output	$2.0 \pm 5\%$ mV/V
Temperature effect -span	0.025% of F.S. / 10°C
-zero	0.025% of F.S. / 10°C
Recommended excitation	10 V
Maximum excitation	15 V
Nominal temperature range	$-10 \dots +60^\circ\text{C}$
Service temperature range	$-20 \dots +80^\circ\text{C}$
Protection class	IP 65 (<500 kg) IP 67 (≥ 500 kg)
Material	Alloy steel Stainless steel (Option)
Cable size	3,000 mm
Cable color code	Input: Red (+) Black(-); Output: Green(+)White(-)

of F.S. = full scale value

Nominal load [kg]	Dimensions in [mm]					Weight
	H	L	W	M	Cable	
50	63.5	50.8	25.4	M8	Ø5	0.3kg
100, 200	76.2	50.8	25.4	M12		0.5kg
500, 1,000	87.3	57.2	31	M12		0.5kg
2,000, 3,000	100	69.8	36.5	M24*2		1.3kg
5,000	114.3	76.2	36.5	M24*2		1.4kg

Subject to technical changes

Model: F2802