

3410—Shear Beam Load Cell

FEATURES

- Capacities 250—2000Kg
- Sealed to IP67.
- Nickel Plated Alloy Steel.
- Accuracy 0.05% RO.

APPLICATIONS

- Industrial platforms.
- Tanks and silos.
- Process Controls.
- Pallet Truck Weighing.



DESCRIPTION

The SB-3410 is a low profile shear beam load cell manufactured from nickel plated alloy steel. It has high immunity to shock or side loaded.

The 3410 can be mounted within the cellmate mounting kit to provide an ideal solution for tank and silo weighing.

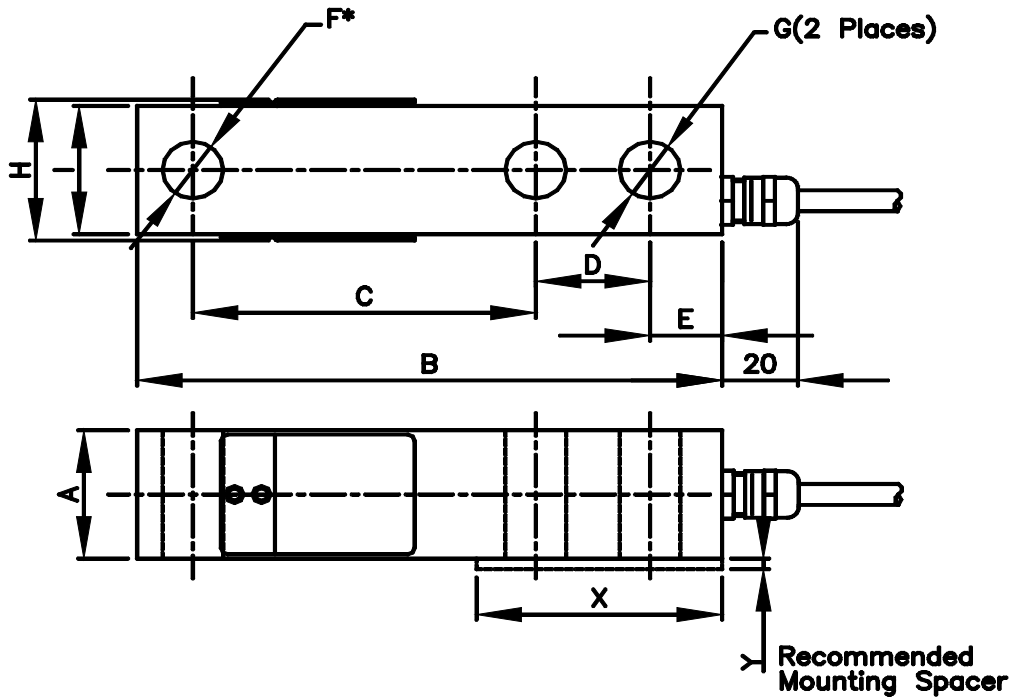
TYPICAL SPECIFICATION

PARAMETER	VALUE	UNITS
Capacities Range	0... 250, 500, 1000, 2000	kg
Rated Output	2.0 (±0.1% RO)	mV/V
Linearity & non repeatability	0.05	±% of Rated Output
Zero Return after 30 minutes	0.03	±% of Applied Load
Zero Balance	2.0	±% of Rated Output
Temperature Range: Operating	-20 to +70	°C
Temperature Range: Compensated	-10 to +40	
Temperature Effect: On Output	0.003	±% of Rated Output/°C
Temperature Effect: On zero	0.01	±% of Rated Load/°C
Safe Overload	150	% of Rated Capacity
Ultimate Overload	300	% of Rated Capacity
Excitation: Recommended	10	Volts AC or DC
Excitation: Maximum	15	
Input Impedance	385 nominal	ohm
Output Impedance	350 nominal	ohm
Insulation Resistance	>2	GΩ at 50VDC
Deflection at Rated Capacity	N/A	mm
Weight (approximate) :	N/A	kg
Construction	Nickel Plated alloy steel	
Environmental Protection	IP67	
Cable	3m 6 core screened	

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OUTLINE DIMENSIONS in millimeters

*Threaded, plain, and T-end options are available.

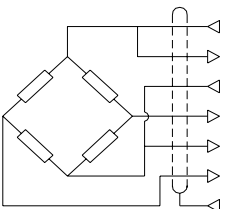


CAPACITY	A	B	C	D	E	F	ØG	H	I	X	Y
1000, 1500, 2500, 4000LBS	30.5	130	76.2	25.4	16	Ø13.5	13.5	34	30.5	57	4
250, 500, 1000Kg	30.5	130	76.2	25.4	16	M12*	13.5	34	30.5	57	4
2000Kg	36	130	76.2	25.4	16	M12*	13.5	34	30.5	57	4

*Tapped M12x1.75 & counterbored Ø13.5x14.5 Deep

NOTE: If the dimensions or specifications do not suit your application, PCM have an in-house design service that should satisfy your requirements.

WIRING DETAIL

Dynamometer	OUTPUT	CABLE
	EXCITATION+ SENSE + EXCITATION - OUTPUT+ SENSE - OUTPUT- -----	Blue Green Black White Grey Red Shield*

LOADING MODE

