

miniature button load cell (compression)

s_FCLB SERIES

s_FCLB miniature compression load cell series generalities

s_FCLB series is a compression miniature load cell suitable for limited free space applications, available with ranges from 50 N up to 10 kN.

The s_FCLB load cell is based on stainless steel "button" body sensor spring, on which is applied a full Wheatstone strain gauge bridge.

Each unit is provided with its factory traceable (to Chinese National Metrological Network), calibration certificate.

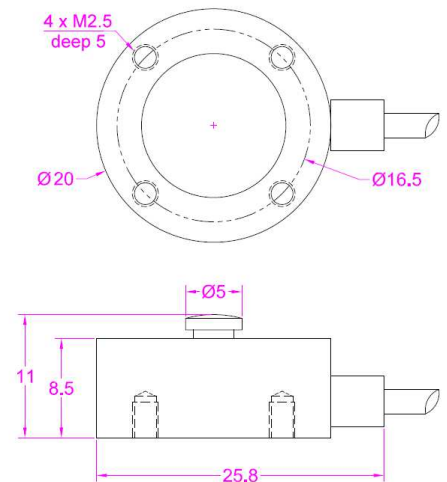


s_FCLB miniature compression load cell series main characteristics:

- several measuring ranges are available within the s_FCLB series;
- stainless steel construction, good overall accuracy, cost effective;
- strain gauge based technology, high output resistance, lower self heating;
- suitable for clamps, automotive, medical devices, assembly lines, etc.

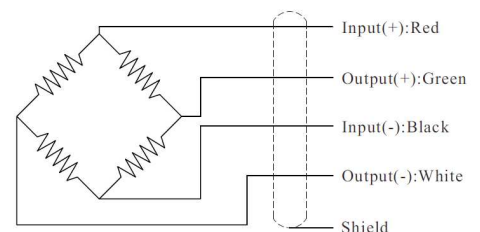
s_FCLB miniature compression load cell series specifications:

- available ranges:	50, 100, 200, 300, 500, 1'000, 2'000, 3'000, 5'000 and 10'000 N;
- rated output:	1.0 to 1.5 mV / V;
- excitation:	from 3 to 10 Vdc (maximum);
- zero balance:	±0.1 mV / V;
- linearity error:	±0.5 % R.O.;
- hysteresis:	±0.5 % R.O.;
- non repeatability:	±0.2 % R.O.;
- creep (30 min):	±0.1 % R.O.;
- safe overload:	150 % F.S.;
- ultimate overload:	200 % F.S.;
- compensated temperature:	-10 to +40 °C;
- operating temperature:	-20 to +60 °C;
- temperature shift (zero):	±0.05 % R.O./ °C;
- temperature shift (span):	±0.01 % R.O./ °C;
- input bridge resistance:	>700 ohms;
- output bridge resistance:	>700 ohms;
- insulation resistance:	> 5000 Mohms (50 V);
- ingress protection:	IP65;
- shaft material:	stainless steel;
- electrical connection:	four cores integral shielded cable (Ø 3 mm, 3000 mm length);



quoted dimensions are in mm

Wiring Diagram



s_FCLB miniature compression load cell series manufacturer:

s_FCLB load cell series manufacturer is a Chinese growing company consolidating its European, North and South Americas markets, capable of design and manufacturing of several strain gauges based sensors, like miniature and button shaped load cells, static and rotating torque sensors. All the products (starting from strain gauges, elastic bodies, and finished products), are duly submitted to the production end quality controls. Custom design of force and torque based sensors is also welcome.