

Strain Gauge Based Bolt on Strain Sensing **LOAD CELL**

BOSS Series



- **Cost Effective Solution for High Capacity Vessel/Silo Weighing Applications**
- **Sealed to IP65**
- **Robust Construction**
- **Simple Installation**
- **All Mounting Accessories Supplied**
- **3 YEAR WARRANTY**

DESCRIPTION

The BOSS series of Bolt-On Strain Sensors designed to be attached directly to steel structures, are capable of detecting tensile, compressive and bending stresses and converting them to a useable electrical signal.

Utilising the latest strain gauge technology, each sensor is manufactured from specifically selected high grade alloy steel with thermal coefficients of expansion matched to structural steel. Each unit is temperature cycled to ensure that the effects of temperature variation are minimised. To ensure complete protection from all but the harshest of environments each sensor is fully encapsulated with a high strength waterproof compound.

Typical weighing applications include silo, hoppers, storage vessels, bins and tanks and overload protection systems on cranes, winches, lifts and presses.

For installation, each unit is supplied with a template to which the two mounting blocks are attached using high tensile cap head bolts. The mounting blocks are welded in position using the template which is then removed and the Bolt-On sensor attached in its place.

Transducer Specialists...

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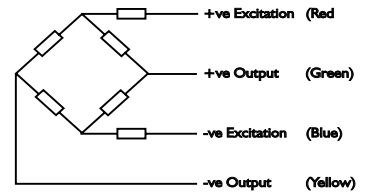
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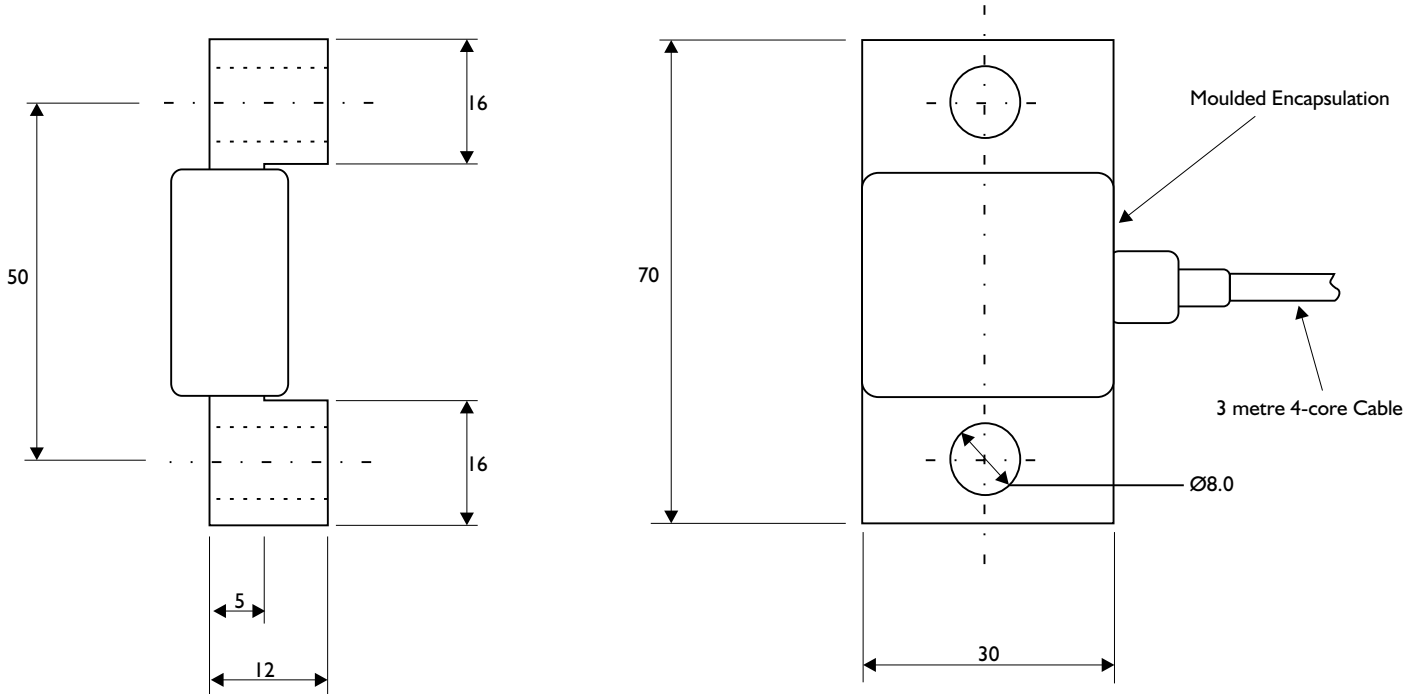


SPECIFICATION

Wiring Schematic Diagram



CHARACTERISTICS	BOSS-F	UNITS
Output at Rated Load:	1.0 nominal	mV/V @ 10000psi
Accuracy:	0.25	±% of Rated Load
Zero Balance:	5.0	±% of Rated Load
Zero Return (30 mins.):	0.04	±% of Rated Load
Temperature Range Operating:	-30 to +70	°C
Compensated:	+15 to +65	°C
Temperature Effect Rated Output:	0.003	±% of Applied Load/°C
Zero Balance:	0.005	±% of Rated Load/°C
Terminal Resistance:	350 nominal	ohms
Electrical Connections:	4 core + screen (3 metres)	
Insulation Resistance:	5000	Megaohms
Excitation Recommended:	10	VDC or VAC
Maximum:	15	VDC or VAC
Safe Overload:	200	% of Rated Load
Ultimate Overload:	600	% of Rated Load
Safe Side Load:	50	% of Rated Load
Deflection:	<0.5	mm
Environmental Protection:	IP65	



All dimensions in mm

Installation and Application Notes are available for this product, on request



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Continuous product development may result in minor changes to published specifications.