Active Load

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28 Folly Green
Woodcote
Reading
Berkshire
United Kingdom
RG8 0ND

telephone +44 (0)1491 680123 facsimilie +44 (0)1491680397 email: actsales@dial.pipex.com

Series 9000 bolt insert load cell

- **Rugged**
- **IP 67 sealed**
- **High Tensile Steel**
- **Amplifier option**

Description

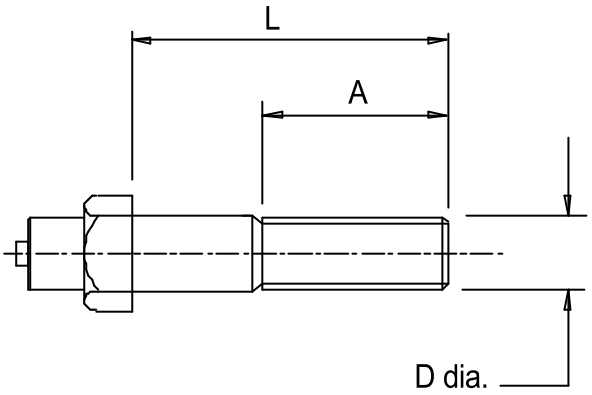
A range of bolt inserts tension cells with diameters from M16 to M56.

Manufactured from high strength steel the unit provides a simple but effective high per - formance solution to the measurement of tensile loads within a bolted joint.

Total protection including a sealed cable entry ensures long term reliability in hostile envi - ronments.

A full range of instrumentation and control packages from simple stand alone displays to complete turn key systems are available to support all Active Load sensors.
Details and specifications available from our Sales office.

Dimensions



Specification Group..... SP4

ELECTRICAL		
Recommended Excitation	10	Vdc
Maximum Excitation	15	Vdc
Output at rated load	2	mV/V
Zero balance	5	% of RL
Input impedance	350	+/-15
Output impedance	350	+/-3
Insulation	10^9	
Compensated temp.	10 to 40	°C
Safe temp. range	-30 to 70	°C
MECHANICAL		
Safe Overload	125	% of RL
Ultimate Overload	175	% of RL
Deflection	<0.5	mm
Cable type	4-C	screened
Cable length	5	M
Sealing	IP67	

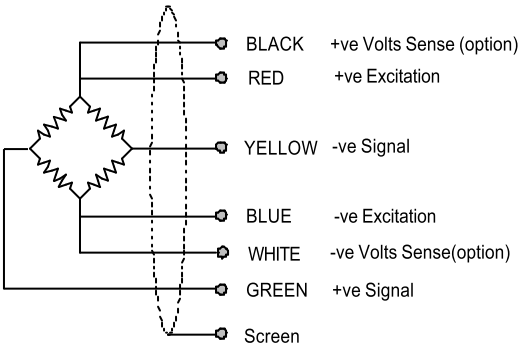
Table

Bolt Size	D mm	L mm	A mm	Load te.
16	M16 x 2.0p	Dimensions as requested (80 mm min)	Dimensions as requested	12
20	M20 x 2.5p			20
24	M24 x 3.0p			28
30	M30 x 3.5p			45
36	M36 x 4.0p			66
42	M42 x 4.5p			90
56	M56 x 5.5p			164
Special sizes on request				

Accuracy Class..... C2

ACCURACY		
Non linearity & hystersis	0.50	%
Non repeatability	0.15	%
Zero return (after 30 minutes)	0.15	%
Temp. effect/10 C on zero	0.20	%
Temp. effect/10 C on span	0.20	%

Wiring



Note:

Maximum errors (+/-) are expressed as a percentage of rated load (when measured at 10Vdc excitation). The linearity and hystersis is the maximum deviation from a straight line drawn between the no load and the rated load outputs for both increasing and decreasing loads. Accuracy classes apply when active range (live weight) is within 20 to 90% of rated load.

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