



Series RSL0856

Subminiature Compression Load Cell

Standard Features

- Subminiature
- Compression
- Welded Stainless Steel
- 0.50% Accuracy
- -40° to 120° C Operation
- mV/V Output



Shown (above) actual size

Standard Specifications

Performance

Capacities	10, 25, 50, 100, 250, 500, 1000 lb.
Output	2 mV/V Nominal.
Accuracy	0.50% BFSL.
Compensated Temperature Range	20°C to 76°C.
Operating Temperature Range	-40°C to 120°C.
Temperature Effect on Zero	0.02% FSO/°C.
Temperature Effect on Span	0.02% Reading/°C.
Zero Balance	3% FSO.
Bridge Resistance	350 Ohms Nominal.

Mechanical Characteristics

Calibration	5 Points (0, 50%, 100%, 50%, 0) Compression.
Static Overload Capacity	150% FSO.
Construction	Welded stainless steel.

Electrical Characteristics

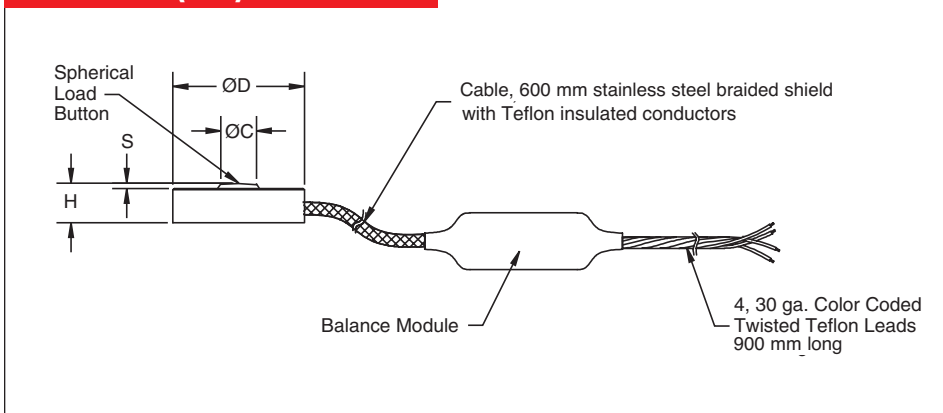
Excitation	5 Vdc or Vac.
Insulation Resistance	Greater than 5000 megaohms at 50 Vdc at 20°C.
Electrical Termination	5', 4 Conductor Shielded Teflon Cable with Integral Balance Board.
Wiring	RED +EXE BLACK - EXE GREEN - SIG WHITE +SIG

RSL0856

Series RSL0856 Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below
Custom Designs Available

Dimensions (mm)



Capacity (lbs.)	ØD	ØC	H	S
10, 25, 50	9.7	2.0	3.3	0.51
100, 250,	12.7	3.3	3.8	0.51
500, 1000	19.1	7.1	6.4	0.51

Available Options

Compensated Temperature Range	From -50°C up to 200°C.
Operating Temperature Range	From -50°C up to 200°C.
Calibration	Additional calibration points (in addition to standard 5 points) available (Consult Factory) Special and custom calibration available (Consult Factory)
Amplifiers	In-Line (Consult Factory). • Analog (4-20 mA; ± 5 Vdc; ± 10 Vdc). • Digital (RS-232; RS-485; CANbus; MODbus).
Calibration Range	Special full scale ranges (Example: 75 lb).
Cable Length	Cable length specified.
Cable Connector	Add a connector to the end of the cable. Consult factory for available connectors.
Overload Protection	Overload protection available on some ranges. Consult factory.
Custom Options	Other unlisted customer requested options welcome.



MODIFICATIONS: We realize load cell applications vary greatly and as such our designs are flexible. Choice of electrical termination, material compatibility and performance characteristics are a few of the many options available. Specifications on this datasheet represent the standard configuration only. Product and company names listed are trademarks of their respective companies. Specifications subject to change without notice.

WARRANTY: RDP warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that RDP's obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by RDP. This warranty is in lieu of all other warranties expressed or implied.

Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

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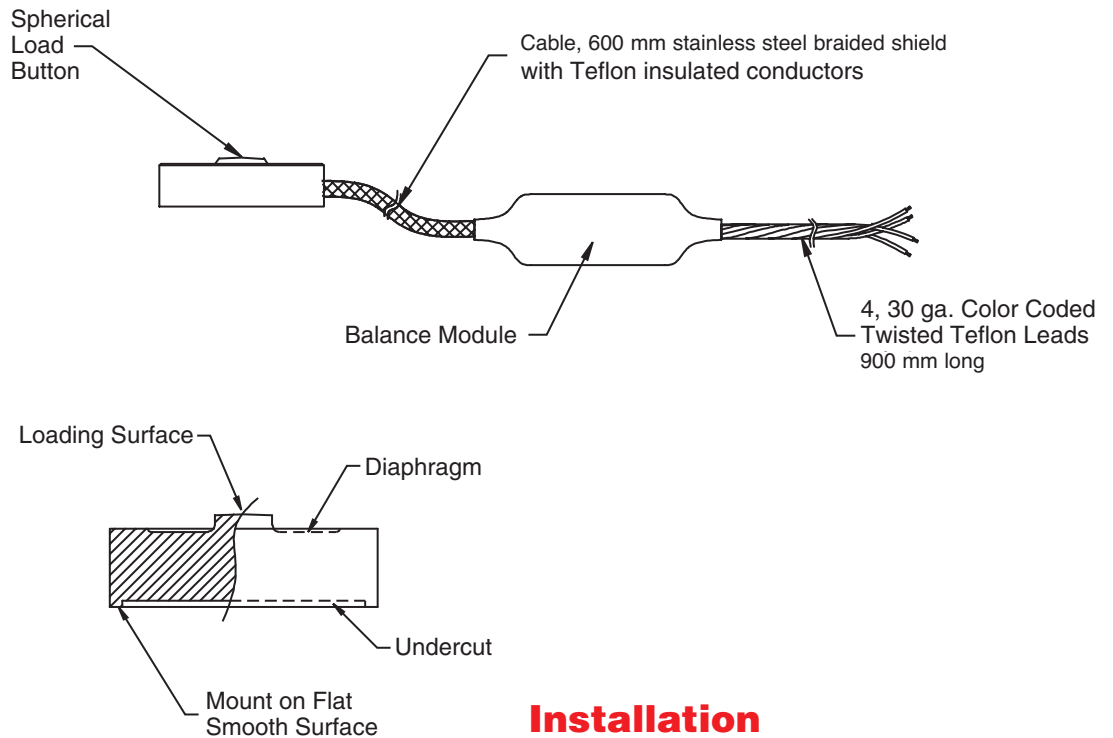
E-mail: sales@rdpe.com • **Website:** www.rdpe.com



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Installation Guide

INSTALLATION



Installation

1. **CAUTION** - Do not load on diaphragm. Only load on loading surface (spherical button). Damage and/or false readings may occur if the diaphragm is loaded.
2. **CAUTION** - Do not overload. Low capacity load cells may be damaged if squeezed or handled incorrectly.
3. **CAUTION** - Do not let glue or other debris accumulate or be contained in the undercut area as this will result in incorrect readings and/or load cell failure.
4. For best results, load cells should be mounted on a flat, smooth surface.

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