



Series RSL0920

Through Hole Load Cell

RSL0920

Standard Features

- Low Profile
- Tension / Compression
- Welded Stainless Steel
- 0.50% Accuracy
- -50° to 120° C Operation
- mV/V Output and Amplified Output Available



Standard Specifications

Performance

Capacities	Ranges from 250 lbs through 30,000 lbs.
Output	2 mV/V Nominal.
Accuracy	0.50% BFSL.
Compensated Temperature Range	20°C to 76°C.
Operating Temperature Range	-50°C to 120°C.
Temperature Effect on Zero	0.009% FSO/°C.
Temperature Effect on Span	0.009% Reading/°C.
Zero Balance	1% FSO.
Bridge Resistance	700 Ohms Nominal.

Mechanical Characteristics

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

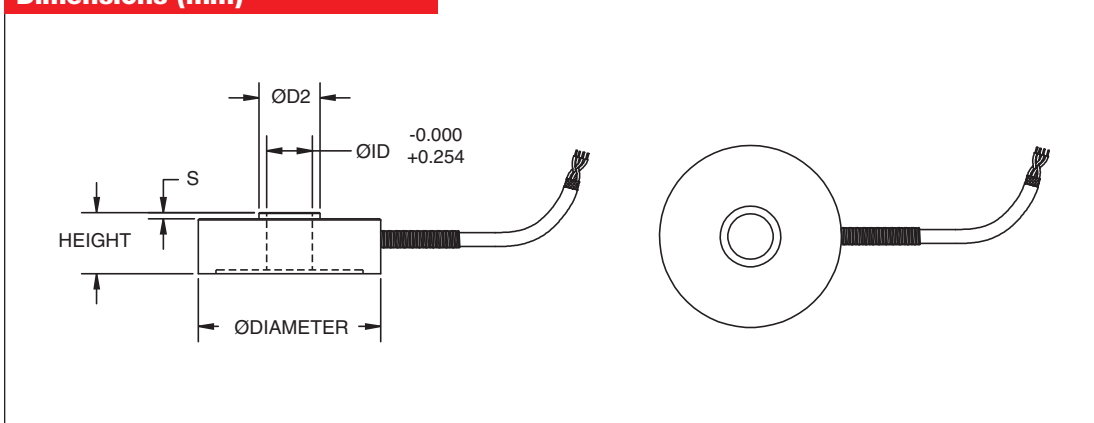
Electrical Characteristics

Excitation	10 Vdc or Vac.
Insulation Resistance	Greater than 5000 megaohms at 50 Vdc at 20°C.
Electrical Termination	10', 4 Conductor Shielded Teflon Cable.
Wiring	RED +EXE GREEN +SIG BLACK - EXE WHITE - SIG

Series RSL0920 Specifications

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

Dimensions (mm)



Frame	Diameter	Height	ØD2	S	Min Range (LB)	Max Range (LB)	Max ID
A	38.1	12.7	12.7	1.30	250	2K	9.7
B	50.8	16.0	22.4	1.30	250	10K	16.7
C	76.2	19.1	43.2	2.00	2K	30K	32.5

Available Options

Hole Size	See table above.
Capacities	Custom ranges above, below (and in-between) table values available. Frame sizes may vary.
Frame Size	Special frame sizes available.
Compensated Temperature Ranges	-50°C to 200° C.
Operating Temperature Ranges	-50°C to 200° C.
Calibration	Additional calibration points (in addition to standard 5 points) available (Consult Factory) Special and custom calibration available (Consult Factory)
Calibration Type	Compression Only. Tension/Compression.
Amplifiers	Integral or In-Line (Consult Factory). • Analog (4-20 mA; ±5 Vdc; ±10 Vdc). • Digital (RS-232; RS-485; CANbus; MODbus).
Bridges	Dual bridges available on some sizes. Consult factory.
Cable Length	Cable length specified.
Cable Connector	Add a connector to the end of the cable. Consult factory for available connectors.
Connector	Consult factory.
Submersible	Available to rated depths, consult factory.
Custom Options	Other unlisted customer requested options welcome.

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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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