

# Series DTH920

Thru Hole Load Cell

## Standard Features

- Low Profile
- Tension / Compression
- Welded Stainless Steel
- 0.50% Accuracy
- -65° to 250° F Operation
- mV/V Output and Amplified Output Available



**DTH920**

## Standard Specifications

### Performance

<b>Capacities</b>	Ranges from 250 lbs through 30,000 lbs.
<b>Output</b>	2 mV/V Nominal.
<b>Accuracy</b>	0.50% BFSL.
<b>Compensated Temperature Range</b>	70°F to 170°F.
<b>Operating Temperature Range</b>	-65°F to 250°F.
<b>Temperature Effect on Zero</b>	0.005% FSO/ F.
<b>Temperature Effect on Span</b>	0.005% Reading/ F.
<b>Zero Balance</b>	3% FSO.
<b>Bridge Resistance</b>	700 Ohms Nominal.

### Mechanical Characteristics

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

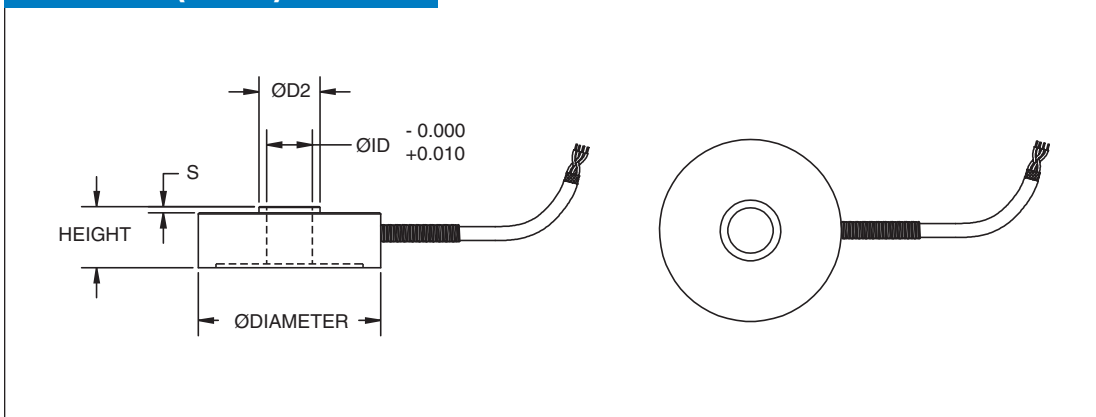
### Electrical Characteristics

<b>Excitation</b>	10 Vdc or Vac.
<b>Insulation Resistance</b>	Greater than 5000 megaohms at 50 Vdc at 70°F.
<b>Electrical Termination</b>	10', 4 Conductor Shielded Teflon Cable.
<b>Wiring</b>	RED +EXE GREEN +SIG BLACK - EXE WHITE - SIG

# Series DTH920 Specifications

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

## Dimensions (inches)



Frame	Diameter	Height	ØD2	S	Min Range (LB)	Max Range (LB)	Max ID
A	1.50	0.50	0.50	0.05	250	2K	0.38
B	2.00	0.63	0.88	0.05	250	10K	0.66
C	3.00	0.75	1.70	0.08	2K	30K	1.28

## Available Options

<b>Hole Size</b>	See table above.
<b>Capacities</b>	Custom ranges above, below (and in-between) table values available. Frame sizes may vary.
<b>Frame Size</b>	Special frame sizes available.
<b>Compensated Temperature Ranges</b>	-65° to 400° F.
<b>Operating Temperature Ranges</b>	-65° to 400° F.
<b>Calibration</b>	Additional calibration points (in addition to standard 5 points) available (Consult Factory) Special and custom calibration available (Consult Factory)
<b>Calibration Type</b>	Compression Only. Tension/Compression.
<b>Amplifiers</b>	Integral or In-Line (Consult Factory). • Analog (4-20 mA; ±5 Vdc; ±10 Vdc). • Digital (RS-232; RS-485; CANbus; MODbus).
<b>Bridges</b>	Dual bridges available on some sizes. Consult factory.
<b>Cable Length</b>	Cable length specified.
<b>Cable Connector</b>	Add a connector to the end of the cable. Consult factory for available connectors.
<b>Connector</b>	Consult factory.
<b>Submersible</b>	Available to rated depths, consult factory.
<b>Custom Options</b>	Other unlisted customer requested options welcome.

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NOTES: When using a load cell the user must consider load ratings and fatigue life for long term use and structural integrity. Critical loading applications, especially overhead loading, must always be designed with safety redundant load paths. MODIFICATIONS: We realize load cell applications vary greatly and as such our designs are flexible. Specifications subject to change without notice.

WARRANTY: Stellar Technology 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 Stellar Technology'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 Stellar Technology. This warranty is in lieu of all other warranties expressed or implied.

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