



# ROBERT A. DENTON, INC.

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## MODEL 5965 300 LB. CHILD SEAT RESTRAINT LOAD CELL

### Applications:

The Model 5965 Child Seat Restraint load cell is designed to measure the reaction force between a child seat latch and the Latch Anchor as defined in FMVSS 225 S9. The base of the load cell has a hook on a swivel that connects to the latch Anchor. The top of the load cell has a form that duplicates the Latch Anchor and will accept the connection to the child seat.

The Model 5965 load cell contains a single force measurement channel. The channel is a full bridge strain gage circuit. One 30-foot-long (9.15 m), twelve conductor, Teflon insulated, shielded cable exits at the side of the load cell.

### Specifications:

Channel	Capacity		Bridge Resistance (nom)	Output Sensitivity (nom)
	Metric	English		
Fy	1.33 kN	300 lbf	350 ohms	1.5 mv/v

Nonlinearity.....less than 1% of full scale

Hysteresis.....less than 1% of full scale

Excitation.....10 VDC nom. 15 VDC max.

Mass (load cell only).....(.066 lb) .030 kg

### Wiring:

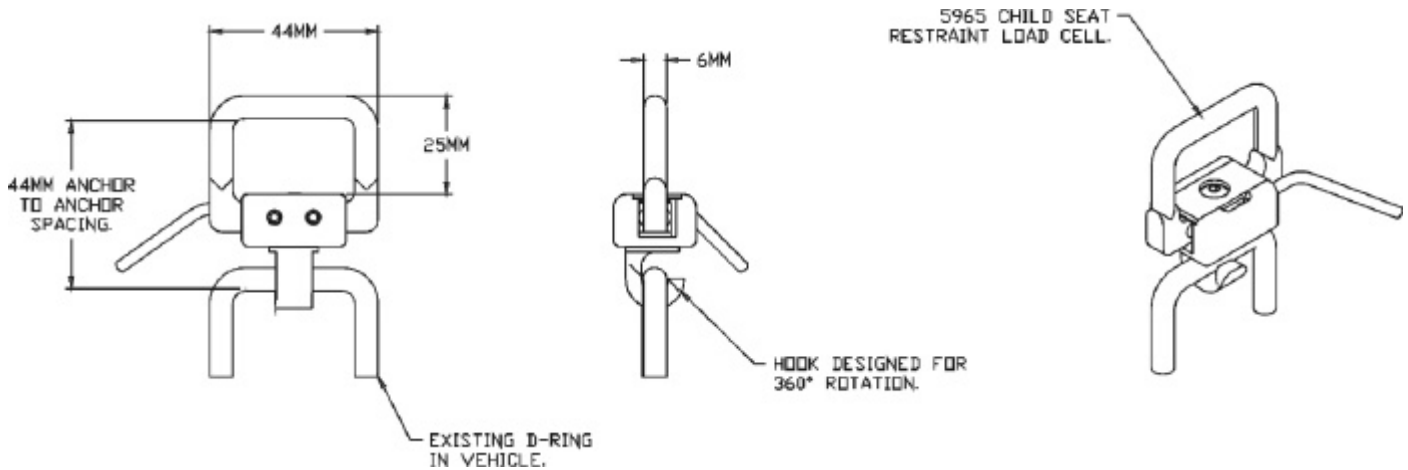
Fy Channel	
Red	+Exc.
Green	+Sig.
Black	-Exc.
White	-Sig.



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### NOTES

1. Use Denton Model 6045 calibration fixture. (Ref. Calibration Fixture drawing 5965-C)
2. If the model tag on the load cell includes a "J" suffix, the load cell is wired for SAE J211 Right Hand Rule sign convention.
3. If the model tag on the load cell includes a "G" suffix, the shield of the cable is grounded to the body of the part.
4. If the model tag on the load cell includes an "I" suffix, there is an ID module in the body of the load cell. The number following the "I" indicates the type of ID module.
5. The standard cable length for this load cell is 9.1 meters (30'). If the cable is cut shorter, the calibration will change. Upon request, the load cell can be made and calibrated with a custom cable length.



### *Creating the Standard in Safety Measurement Since 1974*

Robert A. Denton, Inc. maintains a high level of control over the manufacture of its products to ensure quality, accuracy and reliability. Continued improvement necessitates that we reserve the right to modify these specifications without notice.

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