

Model 3419

Seat Belt Load Cell

DESCRIPTION

The seat belt sensor's design and calibration method essentially make it independent of belt thickness, which may change under load. It provides excellent repeatability without the need for the extensive belt wrap.

FEATURES

- Up to .1 in of belt thickness
- Small size
- Installs without "threading"
- Low sensitivity to belt thickness change

Model 3419

PERFORMANCE SPECIFICATIONS

| Characteristic | Measure |
|-------------------------|---------------------------------|
| Load range | 3500 lb |
| Non-linearity | ±2 % of rated output |
| Hysteresis | ±4 % of rated output |
| Repeatability | ±1.0 % of rated output |
| Output @ rated capacity | 2 mV/V (nominal) |
| Operation | Tension/compression |
| Resolution | Infinite |
| Standard calibration | Tension (+) and compression (-) |

ENVIRONMENTAL SPECIFICATIONS

| Characteristic | Measure |
|----------------------------|------------------------------------|
| Temperature, operating | -54 °C to 93 °C [-65 °F to 200 °F] |
| Temperature, compensated | 21 °C to 77 °C [70 °F to 170 °F] |
| Temperature effect, zero | ±0.003 % of rated output/°F |
| Temperature effect, output | ±0.003 % of reading/°F |

ELECTRICAL SPECIFICATIONS

| Characteristic | Measure |
|-------------------------------|------------------------------|
| Strain gage type | Foil |
| Excitation (maximum) | 20 Vdc or Vac RMS |
| Insulation resistance | > 5000 mOhm @ 50 Vdc |
| Bridge resistance (tolerance) | 350 ohm |
| Zero balance | ±2.0 % |
| Electrical termination | 6 ft of four-conductor cable |

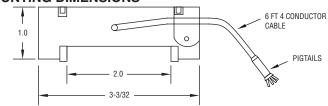
MECHANICAL SPECIFICATIONS

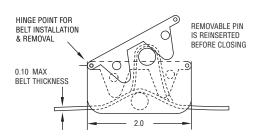
| Characteristic | Measure |
|--------------------------|---------------------------|
| Static overload capacity | 150 % of nominal capacity |
| Weight | 8 oz |
| Band thickness | 2,54 mm [0.10 in] |
| Band width | 50,8 mm [2.0 in] |

RANGE CODES

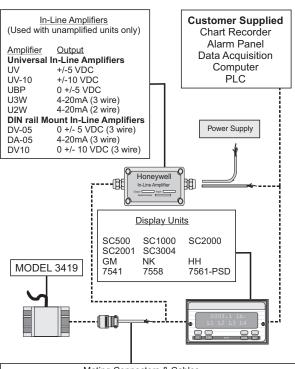
| Wire | |
|-------|----------------|
| Red | (+) excitation |
| Black | (-) excitation |
| Green | (+) output |
| White | (-) output |

MOUNTING DIMENSIONS





TYPICAL SYSTEM DIAGRAM



Mating Connectors & Cables

023-LW181-023-LF Mating Connector

7205-76-XX* Mating connector & 6 conductor cable (unamplified unit with sense leads but not shunt cal)

7205-75-XX** Mating connector & 4 conductor cable

(unamplified unit without sense leads but not shunt cal)

7205-83-XX* Mating connector & 6 conductor cable (for connection to instrument 7541)

7205-82-XX** Mating connector & 4 conductor cable (for connection to instrument 7541)

* XX represents length in feet 100ft maximum

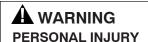
** XX represents length in feet 20ft maximum

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 DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

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- \bullet The information presented in this catalogue is for
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- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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