

## 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

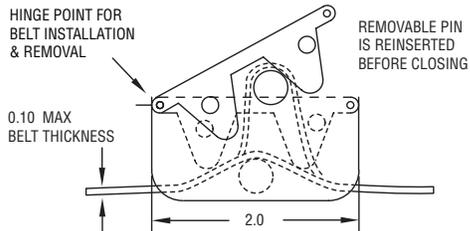
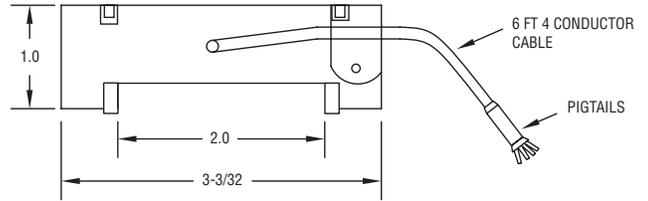
## MECHANICAL SPECIFICATIONS

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]

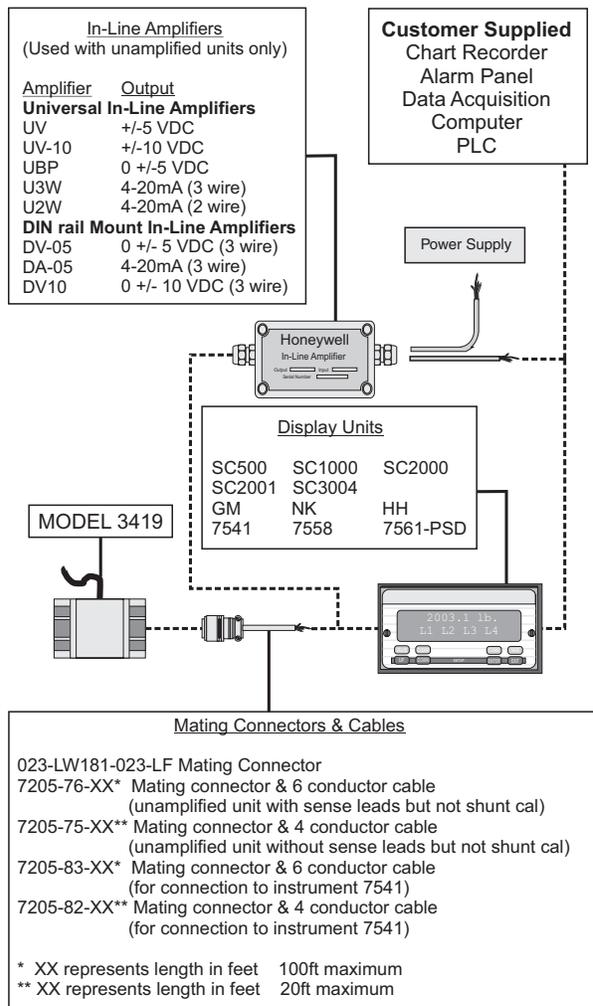
## RANGE CODES

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

## MOUNTING DIMENSIONS



## TYPICAL SYSTEM DIAGRAM



**Warranty.** Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

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Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

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Email inquiries to [info.sc@honeywell.com](mailto:info.sc@honeywell.com)

 **WARNING**  
**PERSONAL INJURY**

- 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.

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

 **WARNING**  
**MISUSE OF DOCUMENTATION**

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- 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.**