

Load cell that measures the force on the seat belt webbing.

- Multiple calibration ranges available
- High accuracy and low linearity error
- Integrated Dallas-ID module
- Quick change cable
- Lightweight and durable design



TECHNICAL SPECIFICATIONS

Body material	Titanium	Aluminum
Use case	Dynamic force measurements	Static force measurements
Measuring range (calibrated)	0 ... 6 or 0 ... 16 kN	0 ... 500 N
Overload without damage	1.25 x 16 kN	4.0 x 500 N
Typical sensitivity	0.16 mV/1 kN/1 V	0.4 mV/1 kN/1 V
Working principle	Strain gauge, full bridge	
Bridge resistance	1,000 Ω	
Linearization electronics	Yes, integrated	
Excitation voltage	5 ... 10 VDC (with linearization electronics)	
Max. power consumption	100 mW	
Conformity	SAE J211/ISO 6487	
Non-linearity	≤ 2%	
Shunt	Optional, positive or negative shunt between positive signal and positive/negative excitation	
Sensor-ID	1-Wire® (Dallas), type DS2401	
Max. seat belt width	50.8 mm (2")	
Max. seat belt thickness	2.0 mm	
Dimensions (L x W x H)	73 x 38 x 18 mm	
Mass, excluding cable	83 g	69 g
Compensated temperature range	10 ... 70 °C	
Cable length	Standard 6 m	

Standard cable connector	LEMO 1B, 7-pin (pin assignment according to customer specifications)
Cable-core colors	White: Positive excitation Brown: Negative excitation Green: Positive signal Yellow: Negative signal Grey: ID-Module Shield: According to customer requirements

More information: → *Seat Belt Load Cell*

- Scope of supply**
- Seat Belt Load Cell
 - Quick change cable (Standard 6 m)
 - Calibration certificate in accordance to ISO/TS 17242

- Options**
- Quick change cable (other lengths on request)
 - Yearly maintenance and calibration service (recommended)