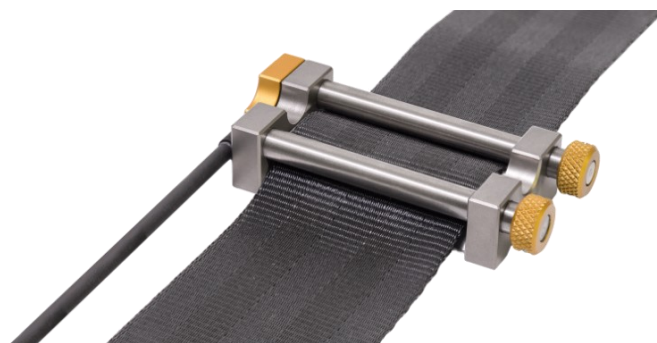


Load Cell that measures the force on the seat belt webbing.

- 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 kN 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 $\Omega$	
Linearization electronics	Yes, integrated	
Excitation voltage	5...10 VDC (with linearization electronics)	
Max. power consumption	100 mW	
Non-linearity	< 1% of F.S.	
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 mm x 38 mm x 18 mm	
Weight, 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	

**Scope of supply**

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

**Options**

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