LBT-B/D

Seat Belt Tension Transducer for CRS



LBT-B-200NSA1-P



LBT-D-100NSA1-H

Tension measurement during crash testing

- **Rated capacity: 100, 200 N**
- **Designed for easy attachment/detachment**

Sensors that measure seat belt tension when attaching a child seat.

LBT-B-200NSA1-P Specifications

Performance	
Rated Capacity	200 N
Nonlinearity	Within ±3% RO
Rated Output	Approx. 0.75 mV/V
Environmental Characteristics	
Safe Temperature	0 to 60℃
Compensated Temperature	10 to 50℃
Temperature Effect on Zero	Within ±0.1% RO/℃
Electrical Characteristics	
Safe Excitation	10 V AC or DC
Recommended Excitation	1 to 5 V AC or DC
Input Resistance	120 Ω ±10%
Output Resistance	120 Ω ±10%
Insulation Resistance	500 MΩ or more (With 50 VDC applied)
Cable	4-conductor (0.08 mm²), vinyl shielded cable, 3.2 mm diameter
	by 5 m long, terminated with a connector plug PRC03-12A10-7M
	(Shield wire is not connected to the case.)
Mechanical Properties	
Safe Overloads	150%
Enclosure	Metallic finish
Material	Aluminum alloy
Weight	Approx. 72 g (Excluding cable)
Others	
Not waterproofed.	
Single belt calibration (Our standard seat belt)	

*Characteristic values are based on our calibration methods and conditions.
*We are able to calibrate the sensors using seatbelts you provide.
*Specifications and design are subject to change without notice.
*Please contact us for information on product warranties.

■Models

Model	Rated Capacity	Nonlinearity	Weight (Approx.)*1
LBT-B-200NSA1-P	200 N	Within ±3% RO	90 g
LBT-D-100NSA1-H	100 N	Within ±1.5% RO*2	65 g

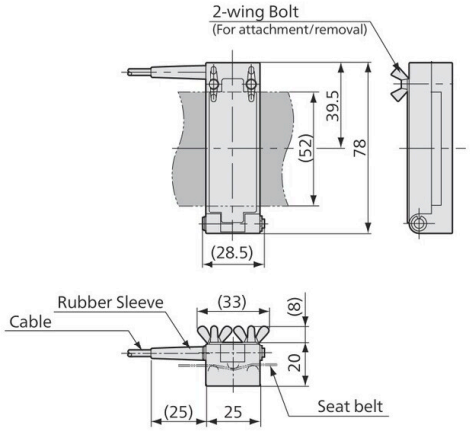
*1 Excluding cable
*2 With a built-in compensation circuit

LBT-D-100NSA1-H Specifications

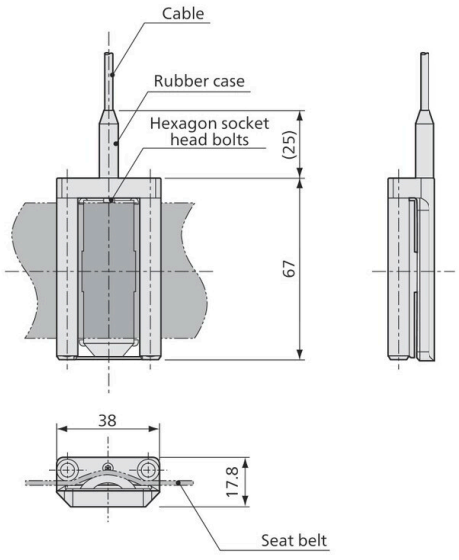
Performance	
Rated Capacity	100 N
Nonlinearity	Within ±1.5% RO (With a built-in compensation circuit)
Rated Output	Approx. 1 mV/V
Environmental Characteristics	
Safe Temperature	0 to 60℃
Compensated Temperature	10 to 50℃
Temperature Effect on Zero	Within ±0.1% RO/℃
Electrical Characteristics	
Safe Excitation	10 V DC
Recommended Excitation	2 to 10 V DC
Input Resistance	700 to 900 Ω
Output Resistance	700 Ω ±3%
Insulation Resistance	500 MΩ or more (With 50 VDC applied)
Cable	4-conductor (0.08 mm²), vinyl shielded cable, 3.2 mm diameter by
	5 m long, terminated with a connector plug PRC03-12A10-7M
	(Shield wire is not connected to the case.)
Mechanical Properties	
Safe Overloads	120%
Enclosure	Metallic finish
Material	Aluminum alloy
Weight	Approx. 65 g (Excluding cable)
Others	
Not waterproofed.	
Single belt calibration (Our standard seat belt)	
Because this product has a built-in compensation circuit,	
use with excitation voltage of 2 to 10 VDC. (No specifications are	
guaranteed at the excitation less than 2 VDC.)	
Data on the "Test Data Sheet" is based on 2 V bridge excitation.	
Box with a built-in compensation circuit is located approx. 300 mm	
far from the cable end.	

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■Dimensions



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LBT-D-100NSA1-H

Connector plug (standard)
PRC03-12A10-7M

