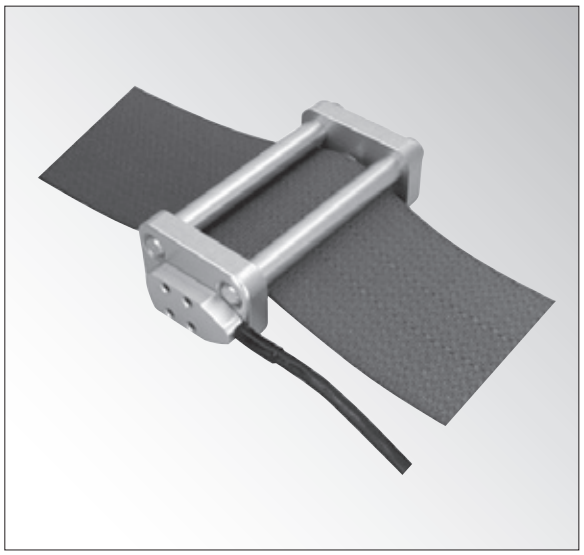
LBT-E

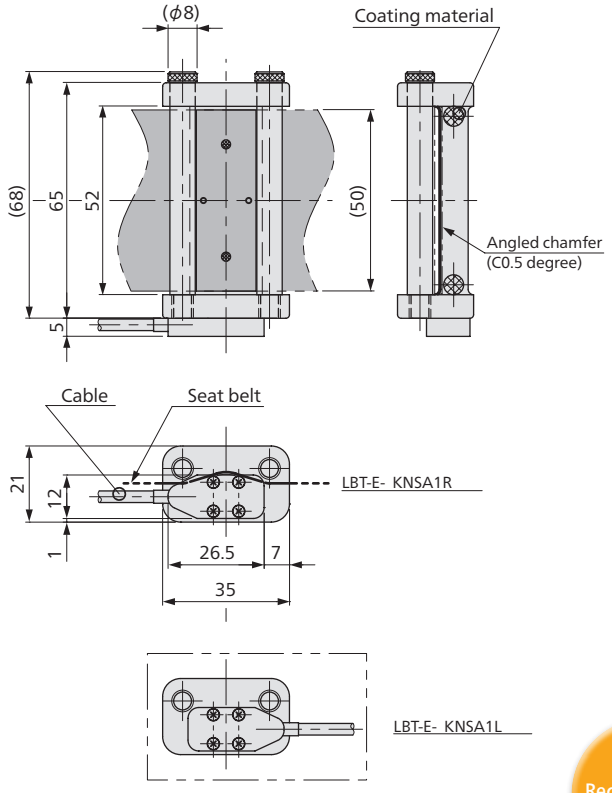
Seat Belt Tension Transducer



Downsizing, lightweight, and improved nonlinearity

Even more compact and lightweight than former models. Additionally, the output correction circuit is built-in, with improved nonlinearity. This has 2 types - left and right depending on the cable direction. Models that support cable replacement using connectors are available.

Dimensions



Specifications

Performance

Rated Capacity	15 kN, 20 kN
Nonlinearity	Within ±1.5% RO for 15 kN, within ±2.0% RO for 20 kN
	(From built-in correction circuit)
Rated Output	Approx. 1.5 mV/V for 15 kN
	Approx. 1.0 mV/V for 20 kN

Environmental Characteristics

Safe Temperature	0 to 60°C
Compensated Temperature	10 to 50°C
Temperature Effect on Zero	Within ±0.1%RO/°C
Temperature Effect on Output	Within ±0.1%/°C

Electrical Characteristics

Safe Excitation	8 VDC
Recommended Excitation	2 to 5 VDC
Input Resistance	240 to 440 Ω
Output Resistance	240 Ω ±7%
Insulation Resistance	500 MΩ or more (with 25 VDC applied)
Cable	4-conductor (0.08 mm²) vinyl shielded cable, diameter 3.2 mm,
	7 m long, terminated with a connector plug R05-PB5M
	(Shield wire is not connected to the case.)

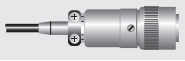
Mechanical Properties

Safe Overloads	120% for 15 kN, 100% for 20 kN
Enclosure	Aluminum alloy
Weight	Approx. 72 g
Other	Because this product has output correction circuitry built in,
	use with excitation voltage of 2 to 5 V.
	(No specifications guarantee if less than 2 V excitation is used)
	Data on the "Test Data Sheet" is based on 2 V bridge excitation.
	This has 2 types - left and right depending on the direction in
	which the cable comes out.
	This product does not have a waterproof construction.
	Single belt correction (Our standard seat belt)
	We accept correction for the supplied seat belt.

Models		Rated Capacity
Cable-Integrated	Connector-Equipped	
LBT-E-15KNSA1L	LBT-E-15KNSA2L	15 kN
LBT-E-15KNSA1R	LBT-E-15KNSA2R	15 kN
LBT-E-20KNSA1L	LBT-E-20KNSA2L	20 kN
LBT-E-20KNSA1R	LBT-E-20KNSA2R	20 kN

L: For the left seat, R: For the right seat

Connector plug
R05-PB5M



LBT-E Recommended products for combination


DIS-5010A
→ 5-40


DIS-7000 Series
→ 5-38


DIS-5210A
→ 5-47

It requires change of the conversion cable or plug.