

LX Series Tension Sensor

Instruction Manual

ALTEC® 深圳市亚特克电子有限公司 Shenzhen ALTEC Electronics Co., LTD.

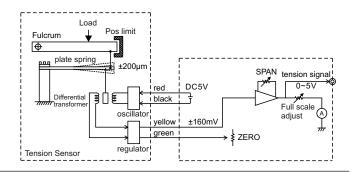
1 Introduction

The LX series tension sensor is used to detect the web tension in tension control systems.

The LX series tension sensor is compatible with Mitsubishi LX tension sensor.

2 Principle

The load added on the sensor cause micro-displacement on the plate-spring($\pm 200\mu m$), the tension sensors use "Linear Voltage Differential Transformer" technology to convert tension into proportional electrical signal. As the figure shows below.



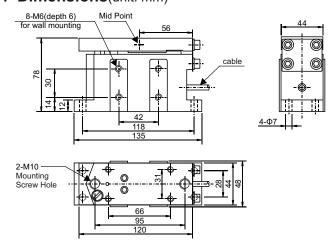
3 Order Code

Model	Rated Load	Power supply	Output	Suffix
LX	150N, 300N, 500N, 1000N	5VDC	0~200mV	None
		24VDC	0~10V, 0~5V(for PLC)	Х

e.g.

LX-1000: The tension sensor's rated load is 1000N, supplied by 5V DC.

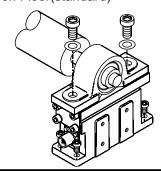
4 Dimensions(unit: mm)



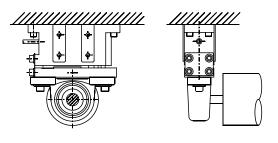
5 Mounting

Note: The bearing center and the tension sensor Mid Point(see dimension drawing)must be on the same line.

5.1 Mounting on Floor(standard)

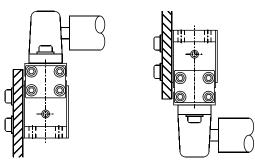


5.2 Mounting on Ceiling

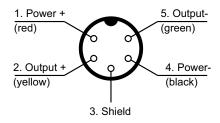




5.3 Mounting on Wall



6 Wiring



Note: Screw length < 6mm

7 Specifications

Rated Load	150N, 300N, 500N, 1000N	
Load Direction	Stress or stretch	
Mounting	on Floor, Ceiling and Wall	
Cable	shield cable(length: 3~6m)	
Power Supply	DC 5V/20mA or DC 24V/20mA(LX-X)	
Environmental	Ambient Temp.: 0~40 °C	
Dimensions	134x48x78(mm)	
Net Weight	1.8 kg	