X-ZL09

Dimension and capacity can be customized by request.

Feature

★ Easy to install and replace the bearing and roller.
★ Built–in new mechanical 10 times anti–overload protection.
★ Minor temperature drift, good non–linearity and repeatability.
★ Strong connections provide long–term reliability.
★ Drilling and tapping can be customized by request.

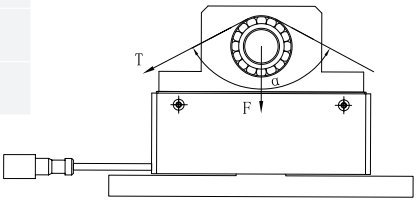
Technical specifications

Nonlinearity	≤0.5% F.S.	Rated output	1.0–2.0mV/V
Repeatability	≤0.2%F.S.	Zero balance	±2% F.S.
Operating temp range	–20~80°C	Compensated temp range	–10~40°C
Temp effect on zero	≤0.02%F.S /°C	Insulation	≥2000MΩ/100VDC
Recommended excitation	5~10VDC	Ultimate load limit	300%F.S.
Cable size	Ø5x5m	Protection class	IP63
Cable connection	Ex+: Red; Ex–: Black; Sig+: Green; Sig–: White		

Naming rules

X-ZL09-B-100
Series
Capacity

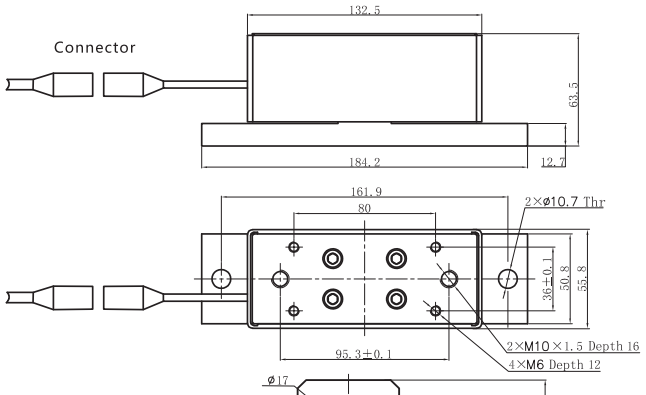
Load direction



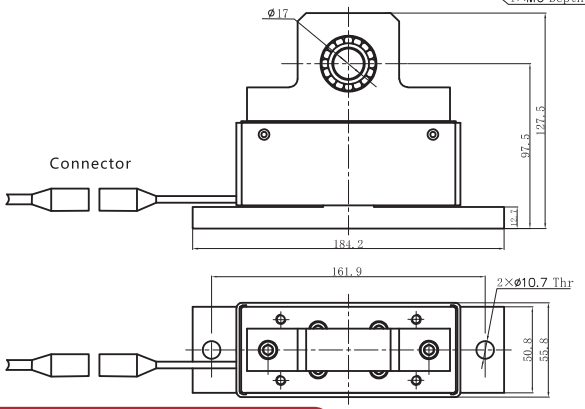
F=T X cos(α/2)+G
*T-Tension α-Envelope angle (30°≤α≤180°)
F-load cell force detection G-Roller self weight

Dimensional Drawings (mm)

X-ZL09



X-ZL09-B



Model no	Capacity(kg)
X-ZL09-5	5
X-ZL09-15	15
X-ZL09-25	25
X-ZL09-50	50
X-ZL09-100	100
X-ZL09-B-5	5
X-ZL09-B-15	15
X-ZL09-B-25	25
X-ZL09-B-50	50
X-ZL09-B-100	100

Note: The rated load is only applicable to the value of a single sensor, and if installed on both sides, it is twice the above.

Applications

It can be used to measure and control the tension of materials during processing, such as paper, label,tape, battery electrode, high performance film and other narrow materials . The sensor's detection signal is not affected by the position of the coiled material on the roller.