Force Sensor LCT-500KA

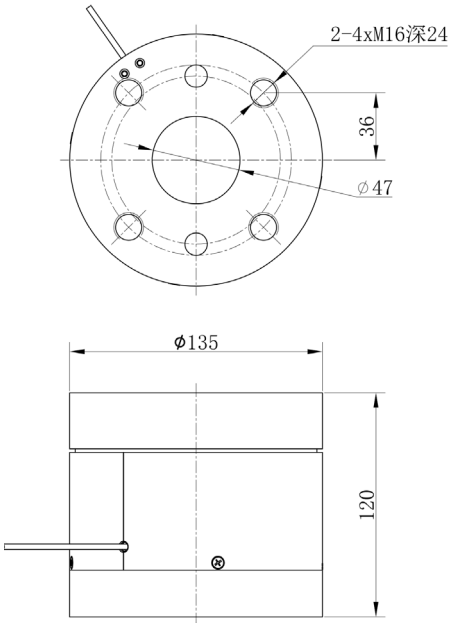
- Triaxial force sensor with bolts installation at both side;
- Full bridge strain gauge principle;
- Range FX=FY=200KN, FZ=500KN;
- Non-Linearity±1%FS;
- Hysteresis±1%FS;
- Dallas ID Module optional.

Triaxial force sensor LCT-500KA is based on the full-bridge strain principle, converting the three-directional forces on the two end faces of the sensor into strain. The structural strain causes a change in the resistance of the strain gauge, thereby enabling the measurement of force through electrical signals. The sensor body is made of stainless steel and is equipped with high-performance wear-resistant cables, which can be customized in length. Additionally, the sensor can be configured with a Dallas ID and connector according to user requirements.

Technical Specification: (with 10V and 25℃）:

Name	Unit	Value
Range	KN	FX=FY=200 FZ=500
Safe Overload	%FS	150
Non-Lin.	%FS	±1
Hysteresis	%FS	±1
Excitation	V	5~15
Span Output	mV/V	FX=FY=2.0 FZ=1.0
Zero Drift	mV/V	<0.1
Crosstalk	%FS	±4
Bridge Res.	Ω	350
Isolation Res.	MΩ	>100
Temperature	℃	-20~80
Mounting	/	2×4×M16
Material	/	Stainless Steel
Weight	kg	8
Dimension	mm	Φ135 × 120

Drawing:



Wires Assignment

Red	EXC+
Black	EXC-
White	SIG-
Green	SIG+
Shield	Case

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