Force Sensor LCT-100KA

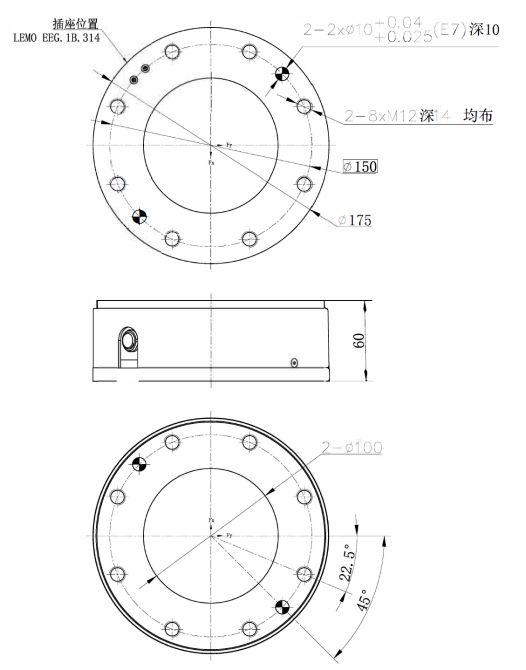
- Triaxial force sensor with bolts installation at both side;
- Full bridge strain gauge principle;
- Ultra-thin structure design;
- Range FX=FY=FZ=100KN;
- FZ=200KN is optional;
- Safe overload 150%FS;
- Dallas ID Module optional.

Triaxial force sensor LCT-100KA 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 FX, FY, FZ	KN	100 FZ=200 optional
Non-Lin.	%FS	±1
Hysteresis	%FS	±1
Excitation	V	5~15
Span Output	mV/V	FX=FY=1.8 FZ=0.5
Zero Drift	mV/V	<0.1
Crosstalk	%FS	±4
Bridge Res.	Ω	FX=FY=350 FZ=1400
Isolation Res.	MΩ	>100
Connector	LEMO	EGG.1B.314
Temperature	℃	-20~80
Material	/	Stainless Steel
Weight	kg	5.6
Dimension	mm	Φ175 × 60

Drawing:



Pin Assignment (EXC+, EXC-, SIG+, SIG-):

FX: PIN1, PIN2, PIN3, PIN4

FY: PIN10, PIN9, PIN8, PIN7

FZ: PIN5, PIN6, PIN12, PIN14

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