

# 6-Axis Force Load Cell



## Features

- Capacity 5KN-15KN; 250Nm-1200Nm
- 6 axis-Fxyz, Mxyz independent bridges
- Low crosstalk
- Compact size

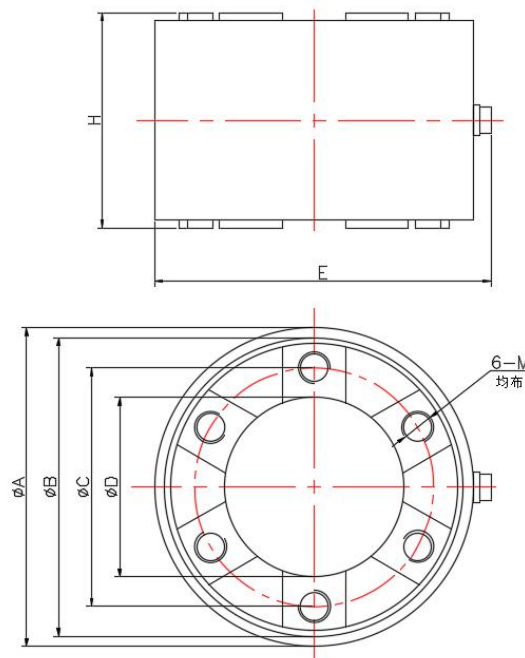
## Optional features

- 0-5V output signal

## DESCRIPTION

The ZM6DW load cell Fxyz and Mxyz utilize independent wheatstone full bridge for each axis which provides mV/V output proportional to the applied force and requires no mathematical manipulation. Typical applications for this type of transducer are for example force exertion control in robotics, automotive crash testing, industrial test benches, grinding force control, actuator operating force measurement, etc.

## DIMENSIONS



Capacity	ΦA	ΦB	ΦC	ΦD	E	H	M
5KN/250Nm	80	75	60	45	92	50	6-M8×1.25 ↓ 9
10KN/750Nm	110	100	80	65	114	60	6-M10×1.5 ↓ 10
15KN/1200Nm	130	120	80	80	133	80	6-M12×1.75 ↓ 15

## SPECIFICATIONS

PARAMETER	VALUE	UNIT
<b>Material</b>	Alloy steel	
<b>Capacity</b>	5KN,10KN,15KN/250Nm,750Nm,1200Nm	KN/Nm
<b>Sensitivity X-Axis</b>	0.5-1.0	mV/V
<b>Sensitivity Y-Axis</b>	0.5-1.0	mV/V
<b>Sensitivity Z-Axis</b>	0.5-1.0	mV/V
<b>Zero balance</b>	1	±% of rated output
<b>Input resistance X,Y-Axis</b>	350±5	Ohms
<b>Output resistance X,Y-Axis</b>	350±5	Ohms
<b>Input resistance Z-Axis</b>	350±5	Ohms
<b>Output resistance Z-Axis</b>	350±5	Ohms
<b>Insulation resistance</b>	5000	Mega-Ohms
<b>Accuracy</b>	1	±% of rated output
<b>Non linearity</b>	0.2	±% of rated output
<b>Hysteresis</b>	0.05	±% of rated output
<b>Temperature effect on min. dead load output</b>	0.0026	±% of rated output/°C
<b>Temperature effect on sensitivity</b>	0.0015	±% of rated output/°C
<b>Creep error (30 minutes)</b>	0.03	±% of rated output
<b>Crosstalk from X to Y</b>	1	±% of rated output
<b>Crosstalk from Y to X</b>	1	±% of rated output
<b>Crosstalk from Z to X/Y</b>	1	±% of rated output
<b>Crosstalk from X/Y to Z</b>	2	% of R.C
<b>Safe overload</b>	150	% of R.C
<b>Ultimate overload</b>	300	% of R.C
<b>Excitation, recommended</b>	10	Vdc
<b>Compensated temperature range</b>	-10 to +40	°C
<b>Operating temperature range</b>	-20 to +60	°C

All specifications listed subject to change without notice.