

3-Axis Force Load Cell



Features

Capacity 5kg,10kg,20kg,50kg,100kg

3 axis-Fx Fy Fz independent bridges

Low crosstalk

Compact size

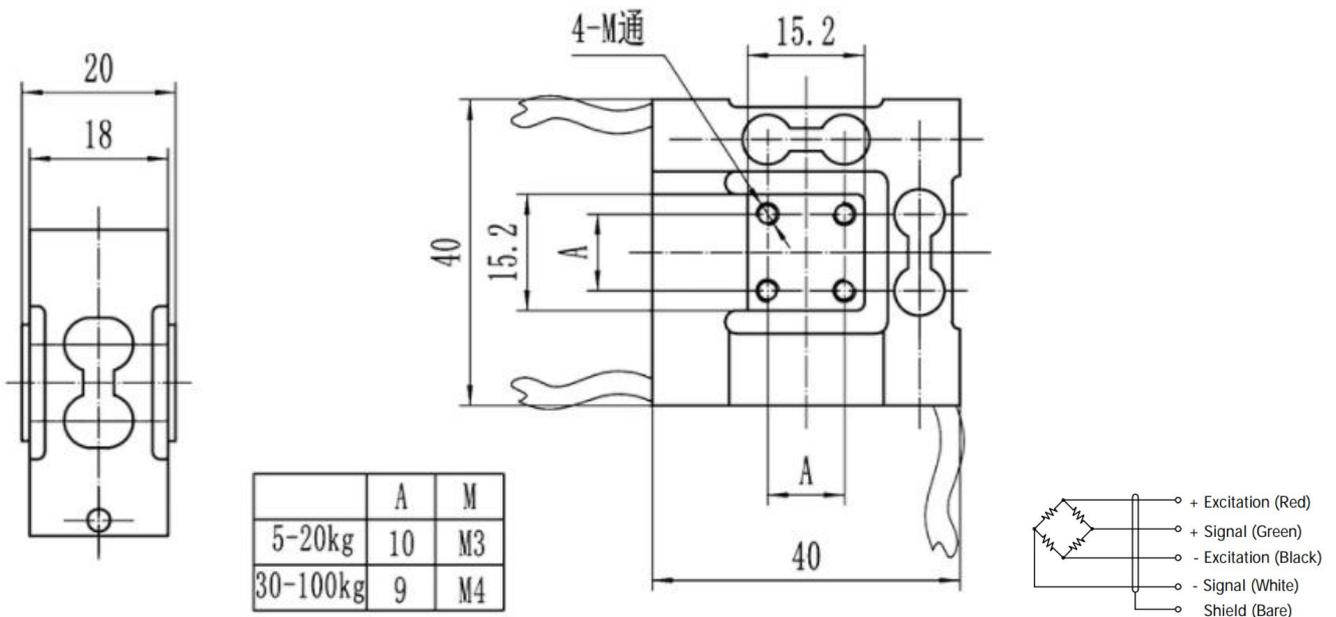
Optional features

0-5V output signal

DESCRIPTION

The ZM3DW-SF load cell XYZ utilizes 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



SPECIFICATIONS

PARAMETER	VALUE	UNIT
Material	Alloy Aluminum	
Capacity	5, 10, 20, 30, 50, 100	KG
Sensitivity X-Axis	0.5-1.0	mV/V
Sensitivity Y-Axis	0.5-1.0	mV/V
Sensitivity Z-Axis	0.5-1.0	mV/V
Zero balance	1	±% of rated output
Input resistance X,Y-Axis	700±5	Ohms
Output resistance X,Y-Axis	700±5	Ohms
Input resistance Z-Axis	350±5	Ohms
Output resistance Z-Axis	350±5	Ohms
Insulation resistance	5000	Mega-Ohms
Accuracy	1	±% of rated output
Non linearity	0.2	±% of rated output
Hysteresis	0.05	±% of rated output
Temperature effect on min. dead load output	0.0026	±% of rated output/°C
Temperature effect on sensitivity	0.0015	±% of rated output/°C
Creep error (30 minutes)	0.03	±% of rated output
Crosstalk from X to Y	1	±% of rated output
Crosstalk from Y to X	1	±% of rated output
Crosstalk from Z to X/Y	1	±% of rated output
Crosstalk from X/Y to Z	2	% of R.C
Safe overload	150	% of R.C
Ultimate overload	300	% of R.C
Excitation, recommended	10	Vdc
Compensated temperature range	-10 to +40	°C
Operating temperature range	-20 to +60	°C

All specifications listed subject to change without notice.