

UDW3-250 SPECIFICATIONS

The UDW3 is designed for accurate underwater force measurement. The body of the load cell is manufactured from heat treated 17-4 PH stainless steel. The mounting surfaces are equipped with threaded holes, and the unit is sealed and filled with mineral oil. A pressure compensation bladder is used to equalize the internal and external pressures. This allows operation underwater with little effect on the force and moment outputs due to water pressure.



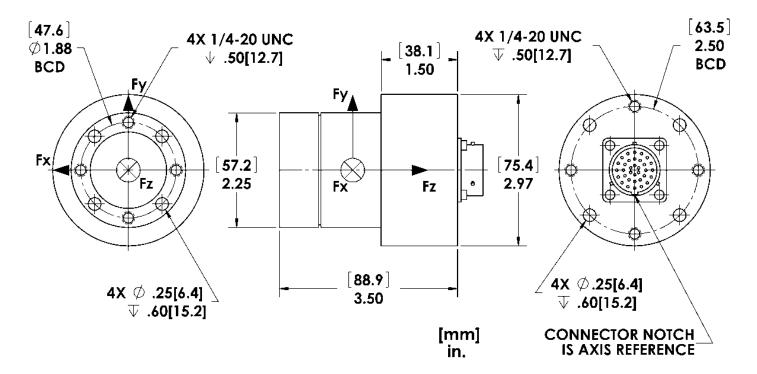
Units: Metric ▼ Capacity: 1112 N ▼

Dimensions(LxDia)	88.9 x 75.44 mm			IP Rating			IP68 *		
Weight	2.05 Kg.			Sensing	Sensing elements			Strain gage bridge	
Channels	Fx, Fy, Fz, Mx, My, Mz			Amplifi	Amplifier			Required	
Body Material	Stainless Steel			Analog	Analog outputs			6 Channels	
Temperature range	-17.78 to 51.67°C			Digital	Digital outputs			None	
Excitation	10V maximum			Crossto	Crosstalk			< 2% on all channels	
Fx, Fy, Fz hysteresis	± 0.2% full scale output			Fx, Fy, Fz non-linearity			± 0.2% full scale output		
Channel	Fx	Fy	Fz	Units	Mx	Му	Mz	Units	
Capacity	556	556	1112	Ν	28	28	14	N-m	
Sensitivity	2.16	2.16	0.54	μv/v-N	106.3	106.3	85.06	μv/v-N-m	
Natural frequency	-	-	-	Hz	-	-	-	Hz	
Stiffness (X 105)	52.58	52.58	745	N/m	-	-	0.0564	N-m/rad	
Resolution	To determine the resolution of your system, please use our <u>Output Calculator</u> .								
Notes:	* The transducer is tested in potable tap water at a pressure of 100 psi (690 kPa) and a temperature of 70°F (21°C) for 8 hours. Any use exceeding these conditions will void the warranty.								

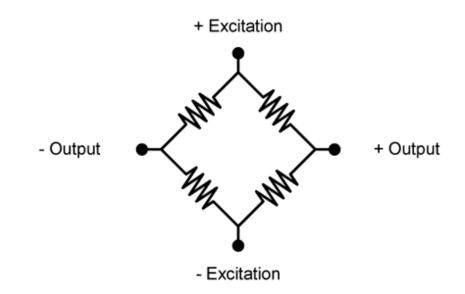
Published specifications subject to change without notice.

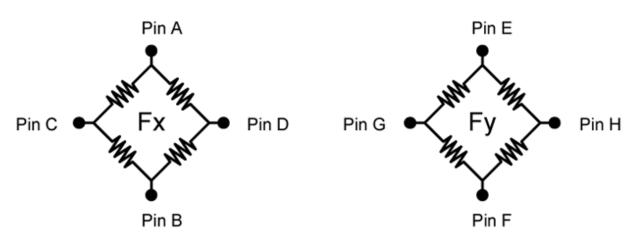
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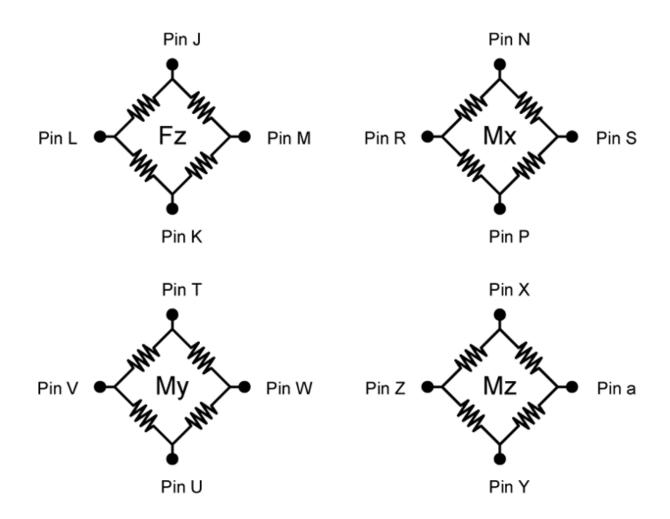
TECHNICAL DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING



Electrical Drawing







Bridge Fz = 700 ohms
Bridges Fx; Fy; Mx; My; Mz = 350 ohms
Connector Type:
Souriau 851-02E16-26P50-44

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