

Pivot End Tension Link

UBSeries

The UB Series is an extremely rugged, high performance tension link constructed of alloy tool steel or stainless steel. The UB Series is designed to accurately measure weight and force in capacities ranging from 0-3,000 lbs. to 0-400,000 lbs.

The UB Series is an extremely rugged, high performance tension link constructed of alloy tool steel or stainless steel. It is designed to accurately measure tension loads in rated capacities ranging from 0-3,000 to 0-400,000 lbs.. Proprietary, axial "gun-bore" gauging techniques produce the benefits of relatively compact size and excellent environmental sealing. This tension link is available as Hostile Environment Sealed (IP66-High Pressure Jets), Harsh Environment Sealed (IP67-Limited Immersion) and Hermetically Sealed (IP68-Continuous Immersion) by virtue of proprietary, multi-redundant barriers uniquely integrated to protect all internal components. This tension link has an integral MS connector with several mating connector/cable combinations available. The UB Series offers unique mounting capabilities to address application-specific requirements. The attributes of the UB Series make it ideal for crane/lift/winch loading, mooring line tension monitoring, guyline tensioning as well OEM requirements where a versatile, rugged solution is needed. The UB Series reliability produces exceptional performance for applications in aerospace, automotive, steel processing, off-shore, power generation, mining, material handling, wood/pulp/paper, petrochemical and similarly demanding applications.





For more information call 1-888-545-8988



APPLICATIONS

- Tension Measurements
- Crane, Lifting & Winch Systems
- Mooring Line Tension Measurements
- Guyline Tensioning

FEATURES

- Up to 400,000 lbs. Capacities
- Alloy or Stainless Steel Construction
- Application Versatility
- 0.25% Accuracy Class
- Excellent Overall Performance
- IP67 Environmental Sealing
- OEM and Custom Configurations
- Options and Accessories
- Two Year Warranty

UB Series Specifications

Innovative Measurement Solutions

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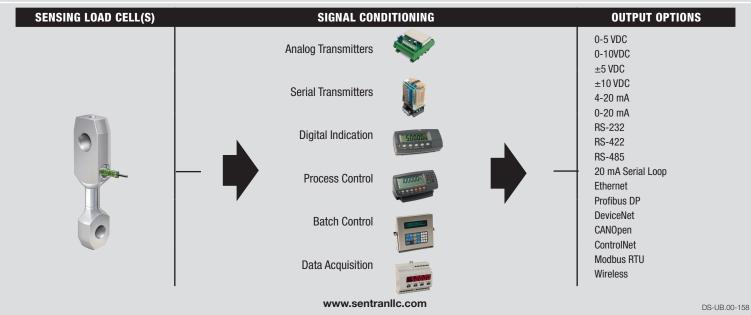
PERFORMANCE	
Rated capacities (1) (lbs.)	3K, 4K, 5K, 6K, 10K, 20K, 25K, 50K, 60K, 75K, 100K, 125K, 150K, 200K, 250K, 300K, 400K
Rated output (FSO)	2 mV/V
Output Tolerance	Nominal
Combined Error Band	≤ 0.5 % FS0
Non-Linearity	≤ 0.5 % FS0
Hysteresis	≤ 0.5 % FS0
Non-Repeatability	≤ 0.2 % FS0
Side Load Rejection Ratio	500:1
Zero balance	± 2 % FS0
Creep (20 minutes)	0.05 % of Load
(1) ("K" = thousand)	

MECHANICAL						
Material	Alloy Tool Steel (UB1) 17-4ph Stainless Steel (UB3)					
Finish	Natural					
Safe overload	Compression 150 % FS0 Tension 150 % FS0 Side Load 100% FS0					
Ultimate overload	Compression 300% FS0 Tension 300% FS0 Side Load: 200% FS0					
Deflection	See Dimensions Table					
Weight	See Dimensions Table					

ELECTRICAL							
Input Impedance	350 (nominal)						
Output Impedance	350 (nominal)						
Insulation Resistance	>5000 Megohms @ 50VDC						
Excitation Voltage	10 V AC/DC (15 V maximum)						
Connector Pin Functions	+ Excitation (A) - Excitation (D) + (Optional) Remote Sense (E) - (Optional) Remote Sense (F) + Signal (B) - Signal (C) Shield (G)						
Cable Color Code	+ Excitation (red) - Excitation (black) + Signal (green) - Signal (white) Shield (natural)						
Cable Type	4-conductor, 22 AWG, Polyurethane Jacket, Tinned Copper Braid, Diameter: 0.220"						
Cable Length	See Dimensions Table						
Cable Termination	Finished Conductors						
Cable Seal	Compression Gland Fitting						
ENVIRONMENTAL							
Temperature, Operating	-65 to +250 °F (-54 to +120°C)						
Temperature, Compensated	15 to +115 °F (-9 to +46°C)						
Temperature, Storage	-65 to +300 °F (-54 to +149°C)						
Temperature Effects	Zero < 0.005% FS0/°F < 0.009% FS0/°C						
Temperature Effects	Output < 0.008% of Rdg./°F < 0.014% Rdg./°C						
Sealing	IP67; Multi-redundant; Limited Immersion Tolerance						
The temperature ratings provided do not include the companion cable/connector assembly. If							

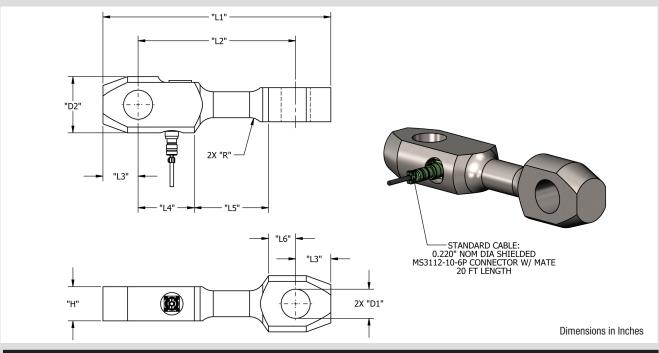
The temperature ratings provided do not include the companion cable/connector assembly. If PUR or PVC cable is employed, the maximum operating temperature is 180°F (82°C)

UB Typical System Configuration



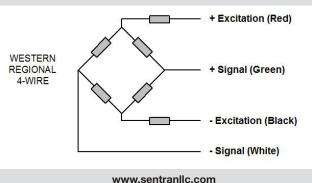
UB Dimensions





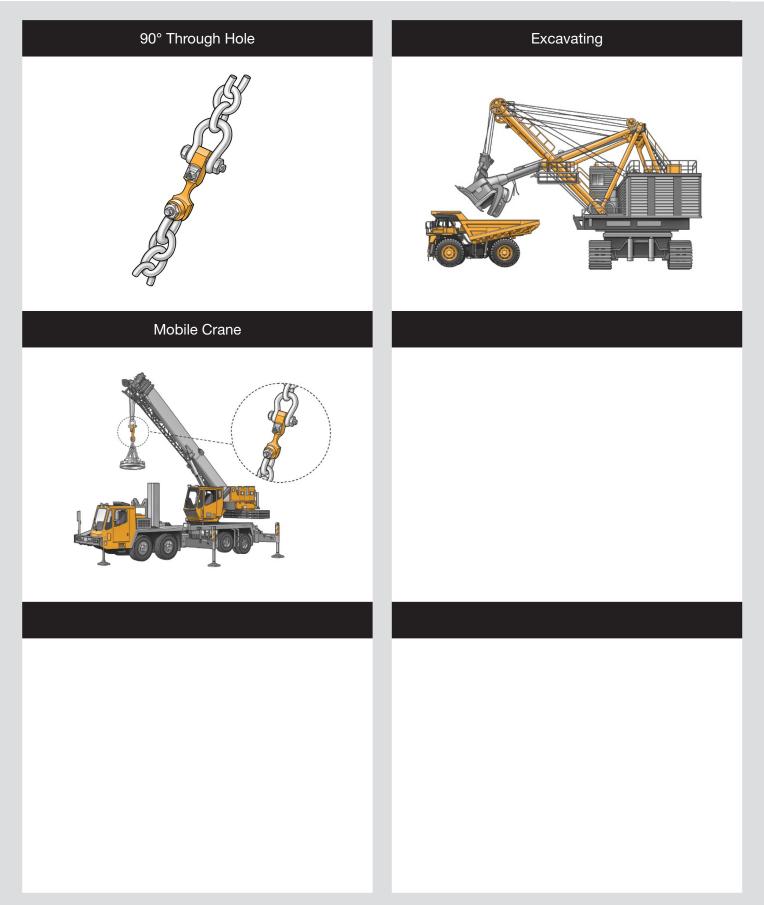
Capacity (LBS)	H1	L1	L2	L3	L4	L5	L6	D1	D2	R	Deflect	Weight
	DIMENSIONS (INCHES)											
3	1.44	7.00	5.25	0.88	2.56	2.31	0.36	0.625	2.00	0.50	0.005" NOM	1.3 LBS
4	1.44	7.00	5.25	0.88	2.56	2.31	0.36	0.625	2.00	0.50	0.005" NOM	1.3 LBS
5	1.44	7.00	5.25	0.88	2.63	2.25	0.36	0.625	2.00	0.50	0.005" NOM	1.3 LBS
6	1.44	7.00	5.25	0.88	2.63	2.25	0.36	0.625	2.00	0.50	0.005" NOM	1.3 LBS
10	1.44	9.25	6.75	1.25	3.06	2.63	1.06	1.000	2.00	0.50	0.005" NOM	2.0 LBS
20	1.44	9.25	6.75	1.25	3.00	2.69	1.06	1.000	2.00	0.50	0.005" NOM	5.5 LBS
25	1.44	9.25	6.75	1.25	2.94	2.75	1.06	1.000	2.00	0.50	0.005" NOM	5.5 LBS
50	1.50	12.00	8.50	1.75	3.06	3.94	1.56	1.375	2.88	1.00	0.005" NOM	10.5 LBS
60	1.50	12.00	8.50	1.75	3.06	3.88	1.56	1.375	2.88	1.00	0.005" NOM	10.7 LBS
75	1.81	12.88	9.00	1.94	3.06	4.38	1.56	1.563	3.25	1.00	0.005" NOM	15.0 LBS
100	2.13	14.19	9.81	2.19	3.50	4.63	1.69	1.813	3.50	1.00	0.005" NOM	19.2 LBS
125	2.25	15.25	10.50	2.38	3.93	5.13	1.44	2.000	3.88	1.00	0.005" NOM	24.0 LBS
150	2.50	15.88	10.75	2.56	3.38	5.31	1.06	2.250	4.13	1.00	0.005" NOM	30.0 LBS
200	2.75	17.25	11.63	2.81	3.44	5.94	1.25	2.500	4.75	1.00	0.005" NOM	41.0 LBS
250	3.00	18.88	12.75	3.06	4.50	5.75	1.50	2.750	5.25	1.00	0.005" NOM	54.0 LBS
300	3.25	20.63	14.25	3.19	5.00	6.50	2.75	3.000	5.75	1.00	0.005" NOM	69.0 LBS
400	4.75	23.75	15.25	4.25	4.50	7.00	3.75	3.250	6.38	1.50	0.005" NOM	107.0 LBS

UB Wiring Diagram



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