Subsea Shackle Load Cell SUBS-2.0

The Subsea Shackle Load Cell is a high strength subsea rated Load Cell manufactured from industry leading Crosby and GN Shackles along with a Stainless Steel Load Pin. The DLM Subsea Shackle is designed for monitoring tensile loads below seawater and is pressure tested to 300 Bar.

The Subsea Shackle Load Cell can be used with a TW-2.0-S hand held display or alternatively can be fitted with an internal signal conditioner for increased cable lengths pairing with a custom display for showing the load and integration with clients existing systems.

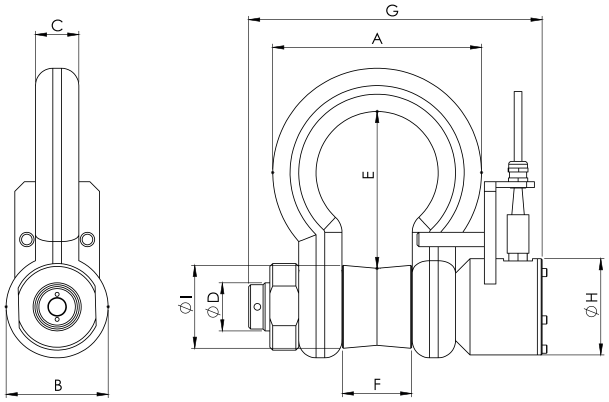
Features:

- **Robust design**
- **Stainless steel construction**
- **Subsea connector and cable**
- **Standard shackle sizes**
- **Optional internal 4-20mA or RS485 Amplifier for longer cable lengths**
- **Supplied with load directional bobbin**

Applications:

- Subsea cable recovery/repair
- Subsea vehicle lifting
- Wave energy generator mooring/tethering
- Offshore wind cable installations
- Bollard pull and certification
- Subsea cable laying

Dimensional Data



Load Capacity Tonnes	Part Number	Shackle	A	B	C	ØD	E	F	G	H	ØI	Proof Load Tonnes	Accuracy % of FRO	Resolution (kg)
12	0001 – 1203	Crosby G2130	146	76	31.8	35	107	51.5	235	100	60	18	<±1	5
25	0001 – 1204	Crosby G2130	225	106	44.5	50	162	73	300	100	86	37.5	<±1	10
55	0001 – 1205	Crosby G2130	327	145	66.5	70	246	105	385	100	114	82.5	<±1	50
85	0001 – 1206	GN H9	365	165	76	82	308	127	444	110	130	127.5	±1	100
120	0001 – 1207	GN H10	416	200	89	95	347	150	493	110	150	180	±1	100
200	0001 – 1208	GN H10	530	260	120	125	450	180	600	140	235	300	±1	100
300	0001 – 1209	GN H10	565	305	130	150	534	200	640	150	287	350	±1	100
400	0001 – 1210	GN H10	655	350	165	175	600	230	720	185	345	600	±1	100
500	0001 – 1211	GN H10	710	370	180	185	610	255	780	200	375	750	±1	100

Specification

Pin, Bobbin & nut material:	Stainless steel
Bridge resistance:	350Ω - 1000Ω
Operating temperature:	-20°C to +60°C
Display:	TW-2.0-S Cabled Hand Held display / Custom display with internal signal conditioner in Load Cell for increased cable lengths
Cable Length:	20m as standard with TW-2.0-S display / 30m+ with internal signal conditioner
Cable Type:	Subsea rated 4 core twisted pair PU2STP cable with over moulded MCIL-4F or IL-4FS with locking rings
Load Cell Connector:	MCBH-4M or BH-4-MP subsea connectors
Sealing:	Face and barrel O ring sealed. Pressure tested to 300 Bar
Calibration:	Supplied with calibration and proof load certificates to BS EN 10002/2 1992
Packaging:	Wooden stowage case for larger capacities
Signal Processor types:	4-20mA Amplifier / RS485 MODBUS / RS485 ASCII / 0-10v