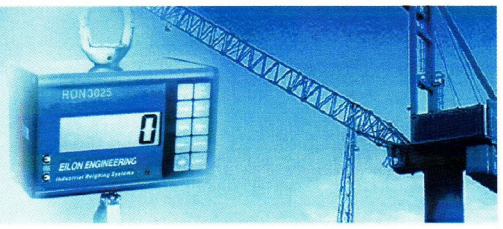
RON Crane Scales
Measuring Excellence



RON 4000 - Load Cell with Built-in Amplifier

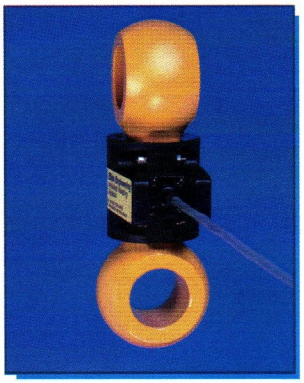
The RON 4000 is a load cell with a built-in analog amplifier. This load cell is specially designed to transmit load or force information to a controller/computer, during controlled tensioning and tension measurement or controlled weighing.

For example, the RON 4000 is used for tension measurement and controlled tensioning of rubber belt conveyors or continuous weighing of steam piping in a power station to detect water condensation in pipes and drain them when the max. permitted level is reached.

The unique perpendicular hole structure of the load cells neutralizes external moments and thus improves safety and accuracy.

The small, lightweight load cells ensure portability and low headroom loss for any application.

All RON load cells are factory-tested and supplied with a test certificate.



Specifications

Safety Factor: Designed to 5:1.

Proof Load: Each system proof-loaded to 200% of capacity (certified) up to a test force of 400t.

Load Cell Material: High-strength, aerospace quality alloy steel, Polyurethane coated.

Linearity: 0.1% F.S.

Input: 6 to 12VDC

Output: 0 to 2V.
Option 4 to 20mA
Option 0 to 2V + 4 to 20mA

Cable: Supplied with 9' (3m) cable.

Temperature Range: -15°F to +175°F (-25°C to +80°C).

Environmental: Weatherproof, NEMA 4, IP 65.

Calibration: Supplied with approximate calibration (Final calibration is performed by the customer, after connecting the load cell to the measuring / control system).
Zero load = $0^{\pm 0.01}$V, $4^{\pm 0.2}$mA.
Full load = $2^{\pm 0.1}$V, 20^{-1}mA.

Max. Input Current: 100mA

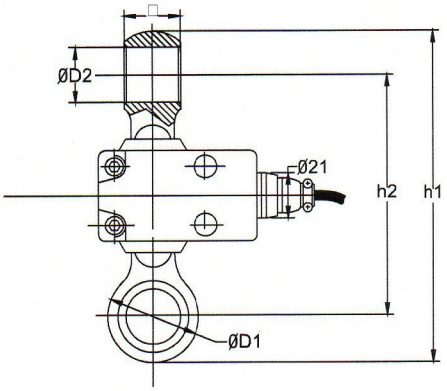
Wiring:

Input voltage (6 to 12VDC)	Red
Common	Black
Output V	White
Output A	Green
Body	Without insulation

Options

- 4 to 20 mA
- 0 to 2v + 4 to 20 mA
- IP 68 Load cell with underwater capability.

RON 4000



Cat. No.	Full Range	Load Cell Weight		h1 (max.)		h2 (max.)		b (max.)		Ø d1 (max.)		Ø d2 (min.)		Matching anchor Shackle size*
	tons	kgs	lbs	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch
S-005	0.5	0.4	0.9	125	4.9	92	3.7	16	0.7	31	1.3	17	0.66	1/2, 7/16, 3/8
S-01	1	0.4	0.9	125	4.9	92	3.7	16	0.7	31	1.3	17	0.66	1/2, 7/16, 3/8
S-02	2	0.4	0.9	125	4.9	92	3.7	16	0.7	31	1.3	17	0.66	1/2, 7/16, 3/8
S-03	3	0.4	0.9	140	5.5	100	4	19	0.75	38	1.5	21	0.82	5/8, 1/2
S-05	5	0.6	1.3	150	5.9	105	4.2	26	1	45	1.75	23	0.9	3/4, 5/8
S-10	10	1.5	3.3	200	7.9	135	5.3	41	1.6	63	2.5	36	1.4	1 1/4, 1 1/8, 1
S-12	12.5	1.5	3.3	200	7.9	135	5.3	41	1.6	63	2.5	36	1.4	1 1/4, 1 1/8, 1
S-15	15	2.3	5	215	8.5	135	5.3	45	1.8	73	2.9	36	1.4	1 1/4, 1 1/8,
S-20	20	2.5	5.5	215	8.5	135	5.3	53	2.1	75	3	40	1.55	1 3/8
S-25	25	3.5	7.7	240	9.4	150	5.9	58	2.3	87	3.4	44	1.7	1 1/2
S-30	30	3.5	7.7	240	9.4	150	5.9	58	2.3	87	3.4	44	1.7	1 1/2
S-40	40	7.7	17	310	12.2	188	7.4	71	2.8	115	4.5	60	2.3	2, 1 3/4
S-50	50	7.7	17	310	12.2	188	7.4	71	2.8	115	4.5	60	2.3	2, 1 3/4
S-80	80	18	40	405	16.9	255	10	97	3.8	145	5.7	76	3	2 1/2
S-125	125	27	60	450	17.7	275	10.8	121	4.8	165	6.5	81	3.18	CROSBY No. 2160 125t
S-200	200	55	121	575	22.6	350	13.8	145	5.7	210	8.3	106	4.2	CROSBY No. 2160 200t
S-250	250	103	227	795	31.3	500	19.7	178	7.0	254	10	133	5.2	CROSBY No. 2140 250t or No. 2160 300t
S-300	300	103	227	795	31.3	500	19.7	178	7.0	254	10	133	5.2	CROSBY No. 2160 300t

* USE SHACKLES WITH S.W.L. (SAFE WORKING LOAD) EQUAL TO, OR GREATER THAN SYSTEM'S FULL RANGE.
* Eilon Engineering reserves the right to make changes without notice.

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