

Load links


V1.0



Strainstall's load links offer a cost effective alternative to standard load cells, including cabled load links, wireless load links and built-in-display load links.

Their rugged construction makes them ideal for lifting and weighing operations in the most extreme environments, including marine, offshore and onshore applications. Manufactured from high tensile, aerospace grade aluminium, the units are anodised to protect against corrosion. The link loading holes are bevelled so that torsional effects are minimised, with an internal antenna for added protection.

Available with a range of displays to suit each application, all of our load links are environmentally sealed, easy to handle and are supplied with fully traceable calibration certificates.

Strainstall uses its expertise to custom design and manufacture load links to suit your specific applications. It also provides an in-house repair and calibration service, offering full flexibility when it comes to your lifting and weighing needs.

Options

- Cabled or wireless
- Hazardous area Zone 1 and 2
- Built in display - Visilink

Features and benefits

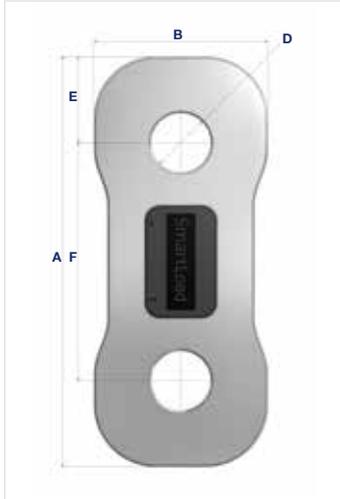
- Industry leading safety factor
- Cost effective alternative to standard load cells
- Internal antenna
- Corrosion resistant design

Typical specifications	mV/V output	mA output	Wireless output
Rated load	As required		
Proof load	150% of rated load		
Non linearity	< ± 0.25% of full scale		
Non repeatability	< ± 0.05% of full scale		
Zero balance	< ± 0.05% of full scale		
Environmental protection	IP67 / IP68		
Safety factor	5x minimum		
Operating temperature	-25°C to +70°C		
Storage temperature	-30°C to + 80°C		
Cable connection	Gland or connector		N/A
Cable length	5m as standard		N/A
Output signal	mV/V	4-20mA	Wireless
Electrical connection	4 core	2 or 3 wire	N/A
Recommended excitation voltage	10V	N/A	N/A
Maximum excitation voltage	15V	N/A	N/A
Recommended supply voltage	N/A	24V	N/A
Maximum excitation voltage	N/A	30V	N/A
Bridge resistance	1000 Ohm	N/A	N/A
Sensitivity	1.5mV/V nominal	N/A	N/A
Data logging	N/A	N/A	On load cell
Battery type	N/A	N/A	2 x AA
Active battery life	N/A	N/A	Up to 200 hours
Standby battery life	N/A	N/A	Up to 1400 hours
Telemetry frequency	N/A	N/A	2.4Ghz ISM
System range	N/A	N/A	Up to 350m
Sampling rate	N/A	N/A	10Hz (500Hz max)

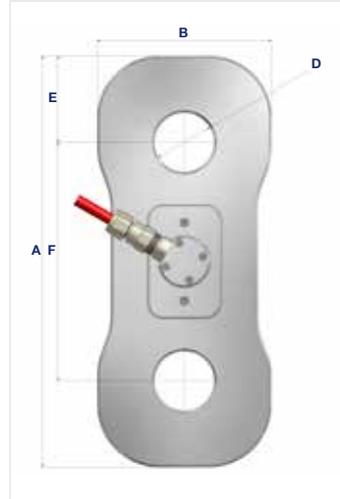
Due to continuous development, Strainstall reserves the right to change specifications without notice.

Load link typical dimensions

Wireless load link



Cabled load link



Load links typical dimensions - bespoke design available on request

Product code (wireless)	TEN 9250	TEN 9251	TEN 9252	TEN 9253	TEN 9254	TEN 9255	TEN 9256	TEN 9257	TEN 9258	TEN 9259	TEN 9260	TEN 9261	TEN 9262	TEN 9263
Product code (cabled)	TEN 9627	TEN 9628	TEN 9629	TEN 9630	TEN 9631	TEN 9632	TEN 9633	TEN 9634	TEN 9635	TEN 9636	TEN 9637	TEN 9638	TEN 9639	TEN 9640
Load rating (tonnes)	2	5	12.5	25	35	50	75	120	150	200	250	300	400	500
Weight (kg)	1.3	1.8	3.5	7	10.8	17.3	29.5	56.5	78.9	122	158	203	304	408
A mm	230	250	300	350	400	450	480	550	620	730	790	860	1020	1120
B mm	74	84	108	144	168	202	244	270	290	340	390	430	520	560
C mm	24	32	50	65	75	90	110	141	161	170	189	189	205	230
D mm	20	26	40	52	58	71	84	97	110	133	143	153	178	188
E mm	37	37	54	72	84	101	122	130	150	180	200	225	270	310
F mm	156	176	192	206	232	248	236	290	320	370	390	410	480	500
G mm (wireless)	50	48	N/A											
G mm (cabled)	81	79	81	96	106	121	141	172	192	201	220	220	236	261

Strainstall's built-in display load links, Visilink, eliminate the need for a hand-held display unit.

Ideally suited to harsh environments where accuracy, reliability and environmental sealing are required, Strainstall's built-in display load links have a resolution of 1 in 100,000 switchable units of measurement, with logging output and peak hold as standard.

The use of well proven, high strength to weight ratio materials allow for the production of easy to handle, high safety factor load links.

Visilink load links also have the option of adding telemetry signal transfer to a remote handset with a range of 250 metres. Available capacities range from 5 tonnes to 100 tonnes.

Typical specifications	Display only	With wireless
Rated load	As required	
Proof load	150% of rated load (dependent on rope capacity)	
Non linearity	< ± 0.25% of full scale	
Non repeatability	< ± 0.05% of full scale	
Zero balance	< ± 0.05% of full scale	
Environmental protection	IP67 / IP68	
Safety factor	5x	
Operating temperature	-25°C to +70°C	
Storage temperature	-30°C to +80°C	
Battery type	2 x AA	
Viewing area	30.78 x 25.02 mm	
Screen resolution	160 x 128	
Pixel density	141 PPI	
Display technology	OLED	
Battery life (active)	65 - 240 hours*	60 - 200 hours*
Battery life (standby)	~ 6 months	
Telemetry frequency	N/A	2.4GHz
System range	N/A	250 m
Data rate	1 - 5Hz	0.1 - 20Hz

* Depending on screen brightness

We are always happy to help find the appropriate, tailored solutions for your business needs. If you have any requests or suggestions please do not hesitate to contact us.

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