**Product data sheet**

# Scotload
## Load Measurement Specialists

## Load links | Available with SmartLoad® technology

CE  Ex  **V1.0**



## Scotload's cost effective load links enable accurate and reliable load monitoring.

Our links are designed to minimise stress concentrations and maximise strength. The design incorporates features which maximise reliability, minimise the risk of damage and ensures ease of use.

Manufactured from high tensile, aerospace grade anodised aluminium, our load links are suitable for use across all industry sectors including marine and offshore. They are fully Finite Element Analysis (FEA) optimised and destructively tested.

We have a range of links in stock, up to 500 tonnes for purchase or hire, and ready for immediate dispatch. Larger capacities are available on request and all of our load links are supplied with full calibration and proof load certificates.

### Options
- Available with SmartLoad® technology
- Cabled or wireless
- Hazardous area Zone 1 and 2
- Built in display - Visilink

### Features and benefits
- Industry leading safety factor
- In link data logging
- Latest wireless technology
- Internal antenna
- Compatible with SmartLoad® COG system
- Corrosion resistant design
- Use with any SmartLoad® hand held or wall mounted display

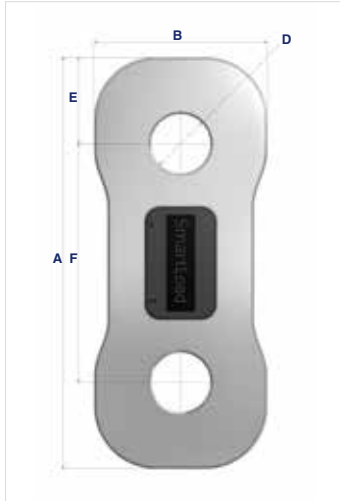| Typical specifications | mV/V output | mA output | Wireless output |
|---|---|---|---|
| Rated load | As required | | |
| Proof load | 150% of rated load | | |
| Non linearity | < ± 0.25% of full scale | | |
| Non repeatability | < ± 0.05% of full scale | | |
| Zero balance | < ± 0.05% of full scale | | |
| 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) |

**Ex** **SmartLoad® load links are available for use in hazardous area Zones 1 and 2** **Ex**
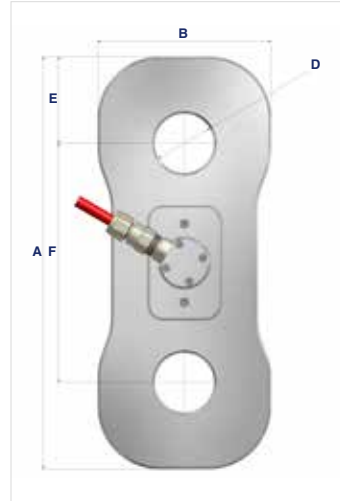
Due to continuous development, Scotload reserves the right to change specifications without notice.

# Load link typical dimensions

| 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 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G mm (cabled) | 81 | 79 | 81 | 96 | 106 | 121 | 141 | 172 | 192 | 201 | 220 | 220 | 236 | 261 |

## Visilinks - built in display load links

Scotload's Visilink load cells include a clear visual display within the load cell itself.

**Features and benefits:**

- SmartLoad® technology
- Can be controlled via the load cell menu
- Can be used with SmartLoad® wireless displays
- Logging capabilities
- Can be used with SmartLoad® software packages



| 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.**