

Stainless Steel Shear Beam Load Cell

FEATURES

- Capacities 500–2000 kg
- Stainless steel construction
- OIML R60 approved
- Sealed to IP67
- **Optional**
 - EEx ia IIC T6 hazardous area approval



APPLICATIONS

- Low profile platforms
- Pallet truck weighing
- Tank and silo weighing
- Food industry platforms

It has high immunity to shock or side loading, and is available in 2 mV/V sensitivity and is approved to OIML 6000 divisions.

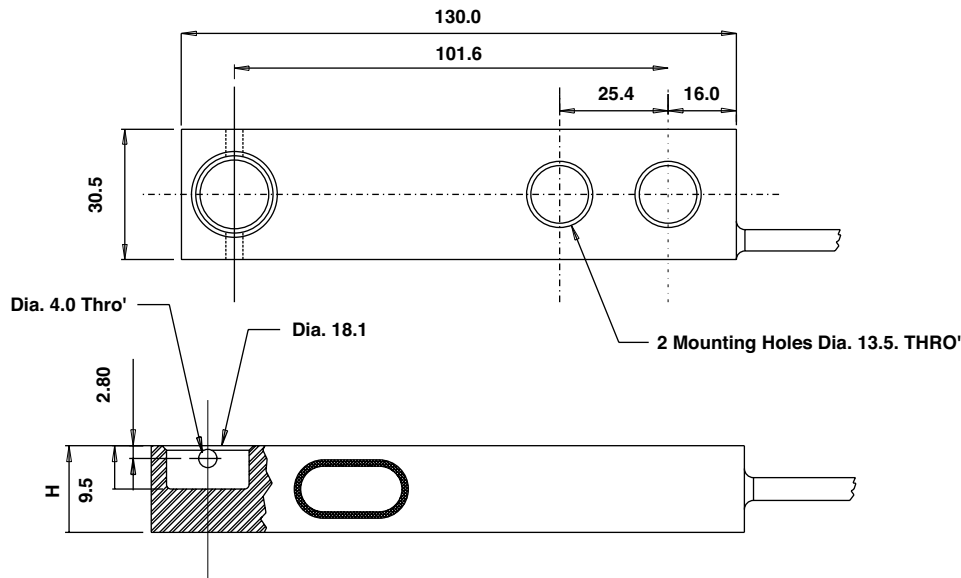
Sealed to IP67 as standard the 3520 is ideally suited for harsh industrial applications where performance and durability are paramount.

The extremely low profile makes this load cell ideal for today's modern low profile industrial platforms.

DESCRIPTION

Model 3520 is a low profile shear beam load cell designed for high accuracy platform scales, pallet scales and process weighing applications.

OUTLINE DIMENSIONS in millimeters



T-End loading shown. Other end options include M12 threaded.

| CAPACITY (kg) | H |
|---------------|---------------|
| 500 | 19.0 (0.748") |
| 1000 | 19.0 (0.748") |
| 2000 | 28.0 (1.102") |

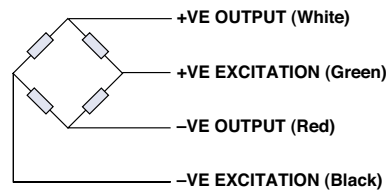
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| SPECIFICATIONS | | | |
|-------------------------------------|--|-------------------|-------------------------|
| PARAMETER | VALUE | | UNIT |
| Rated capacity – R.C. (E_{max}) | 500, 1000, 2000 | | kg |
| OIML accuracy class | Non-Approved | C3 ⁽¹⁾ | |
| Maximum no. of intervals (n) | 1000 | 3000 | |
| $Y = E_{max}/V_{min}$ | 2000 | 6000 | Maximum available 15000 |
| Rated output – R.O | 2.0 | | mV/V |
| Rated output tolerance | 0.1 | | ±% of rated output |
| Zero balance | 2 | | ±% of rated output |
| Zero return, 30 min. | 0.050 | 0.017 | ±% of applied load |
| Total error | 0.0500 | 0.0200 | ±% of rated output |
| Temperature effect on zero | 0.007 | 0.0023 | ±% of rated output/°C |
| Temperature effect on output | 0.0030 | 0.0010 | ±% of applied load/°C |
| Temperature range, compensated | -10 to +40 | | °C |
| Temperature range, safe | -30 to +90 | | °C |
| Maximum safe central overload | 150 | | % of R.C. |
| Ultimate central overload | 300 | | % of R.C. |
| Excitation, recommended | 10 | | VDC or VAC RMS |
| Excitation, maximum | 15 | | VDC or VAC RMS |
| Input impedance | 380±15 | | Ω |
| Output impedance | 350±3 | | Ω |
| Insulation resistance | >2000 | | MΩ |
| Cable length | 3 | | m |
| Cable type | 4-wire, braided, polyurethane, floating screen | | Standard |
| Construction | Stainless steel | | |
| Environmental protection | IP67 | | |
| Recommended torque | 136.0 | | N*m |

⁽¹⁾ 50% utilization

All specifications subject to change without notice.

WIRING SCHEMATIC DIAGRAM





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