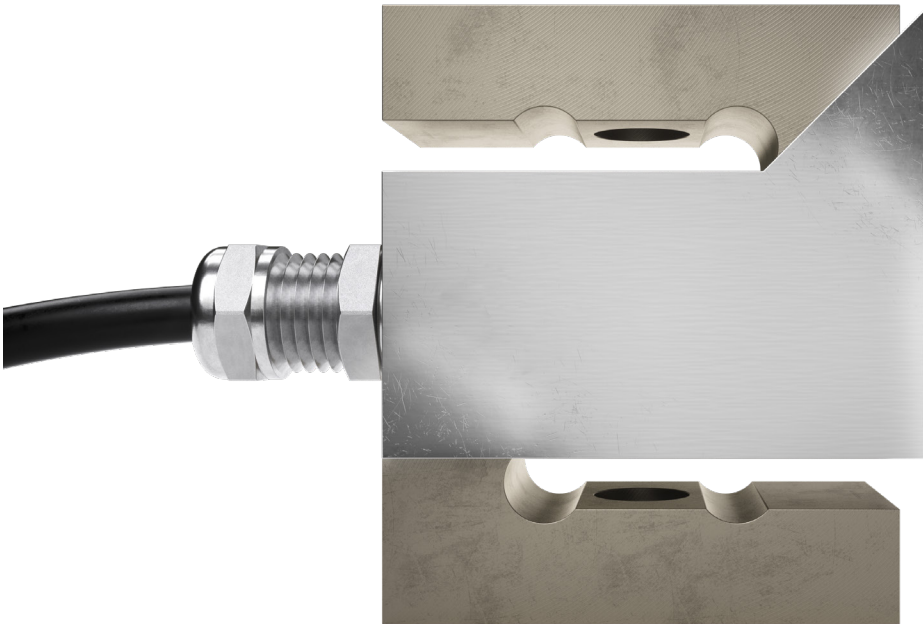


UXT tension load cell



product description

The UXT tension load cell offers a wide range of capacities, extending from 50kg to 7,500kg. Constructed from alloy steel with an electroless nickel-plated surface, it's a robust and reliable choice and an economical alternative to our popular ULB tension load cell.

applications

Suspended tanks and hoppers, crane scale. Suitable for general applications in the process weighing and process automation and control sectors.

approvals

OIML approval to C3 (Y=10,000).

Optional Y=24,000 available for 50-250kg models

NTEP approval to 5,000 intervals, Class III & 10,000 intervals, Class III L

ATEX hazardous area approval for zones 0, 1, 2, 20, 21 and 22 (pending)

FM hazardous area approval (pending)

key features

A wide range of capacities from 50kg to 7,500kg

Electroless nickel-plated alloy steel body with protective cover

Environmentally sealed by potting to IP67

Tension and compression loading (bi-directional)

Available in metric and imperial thread form

accessories

Compatible range of hardware

Compatible range of electronics



RoHS compliant



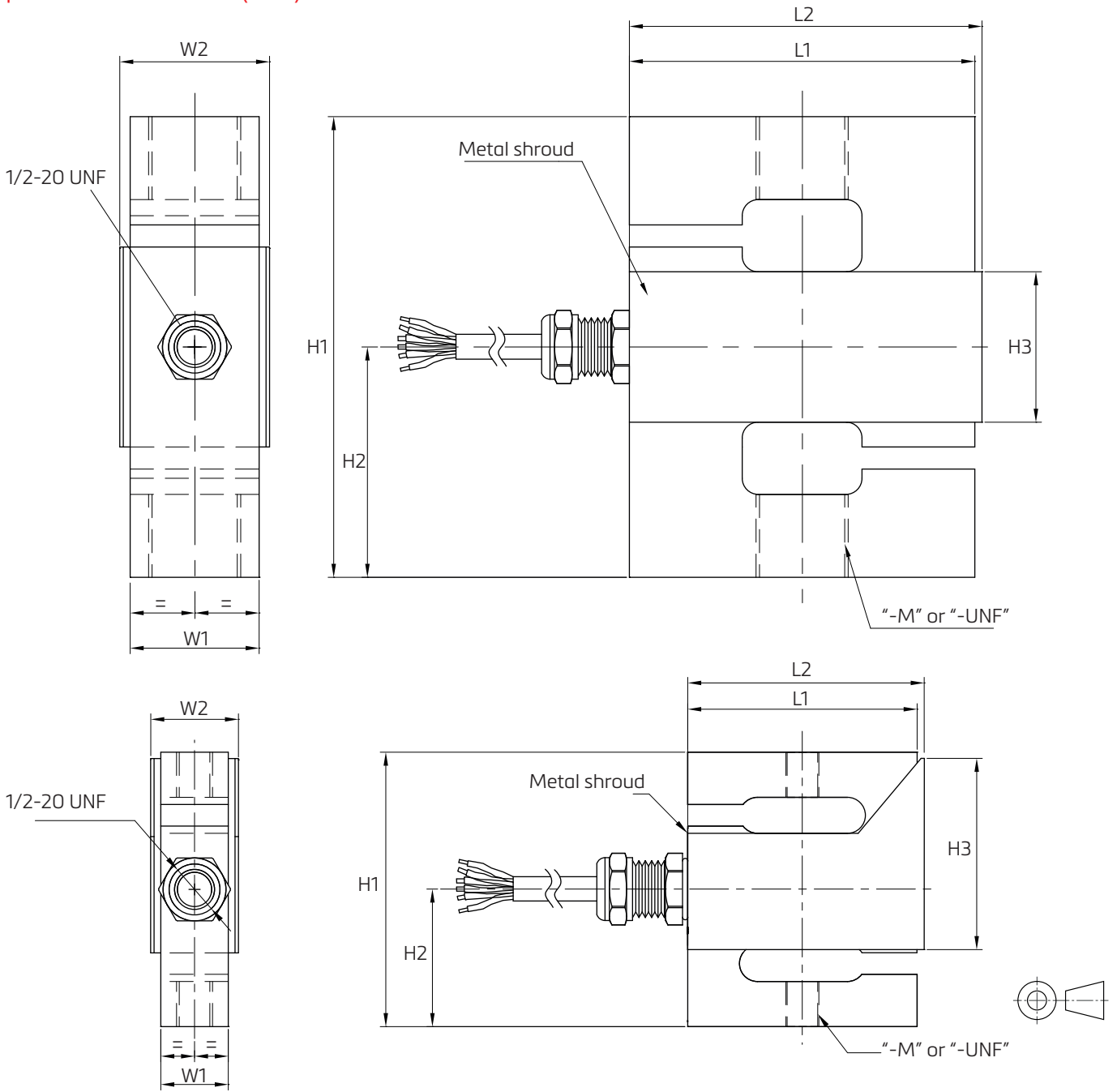
 **flintec**
quality + precision

specifications

| | | | |
|---|-------------|---|---|
| Maximum capacity (E_{max}) | kg | 50/100/250/500/1,000/2,000/5,000/7,500 | |
| Rated Output (RO) | mV/V | 3±0.25% | |
| Calibration in mV/V/W (A...I classified) | %RO | ≤0.05 (≤0.005) | |
| Accuracy class according to OIML R60 | - | GP | C3 |
| Maximum number of verification intervals (n_{max}) | - | n/a | 3,000 |
| Minimum load cell verification interval (v_{min}) | - | n/a | $E_{max}/10,000$ (Optional $E_{max}/24,000$ for 50-250kg models) |
| Non-linearity | %RO | ±0.0400 | ±0.0200 |
| Hysteresis | %RO | ±0.0400 | ±0.0200 |
| Combined error | %RO | ±0.0400 | ±0.0200 |
| Creep error (30 mins) | %RO | ±0.0600 | ±0.0166 |
| Temperature effect on minimum dead-load output (TC_0) | %RO/10°C | ±0.0400 | ±0.0116 |
| Temperature effect on sensitivity (TC_{RO}) | %RO/10°C | ±0.0200 | ±0.0100 |
| Excitation voltage | V | 5...15 | |
| Zero balance | %RO | ±5 | |
| Input resistance | Ω | 400±50 | |
| Output resistance | Ω | 350±2 | |
| Insulation resistance | MΩ | ≥5,000 | |
| Compensated temperature range | °C | -10...+40 | |
| Operating temperature range | °C | -20...+65 | |
| Safe load limit | % E_{max} | 150 | |
| Ultimate load | % E_{max} | 300 | |
| Load cell material | - | Alloy steel (AISI 4140) | |
| Sealing | - | Potted | |
| Protection according to DIN 40.050 | - | IP67 | |
| Cable length and type | - | 6m, 6 cond. 26AWG black jacket polyurethane cable | |

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values. The sum of Non-linearity, Hysteresis and TC_{RO} meets the requirements according to OIML R60 with $p_{LC}=0.7$

product dimensions (mm)



| Capacity (kg) | H1 | H2 | W1 | L1 | W2 | L2 | H3 | -M | -UNF |
|---------------|-----|------|----|----|-------|-------|-------|----------|--------|
| 50, 100 | 61 | 30.5 | 15 | 51 | 19.52 | 53.35 | 43.2 | M8x1.25 | 3/8-24 |
| 250, 500 | 61 | 30.5 | 21 | 51 | 25.52 | 53.35 | 43.5 | M12x1.75 | 1/2-20 |
| 1,000 | 61 | 30.5 | 28 | 51 | 32.52 | 53.35 | 27.6 | M12x1.75 | 1/2-20 |
| 2,000 | 100 | 50 | 28 | 75 | 32.52 | 77.76 | 32.4 | M20x1.5 | 3/4-16 |
| 5,000 | 100 | 50 | 34 | 75 | 38.52 | 77.76 | 36.0 | M20x1.5 | 3/4-16 |
| 7,500 | 140 | 70 | 40 | 87 | 44.52 | 89.76 | 37.56 | M24x2.0 | 1-14 |

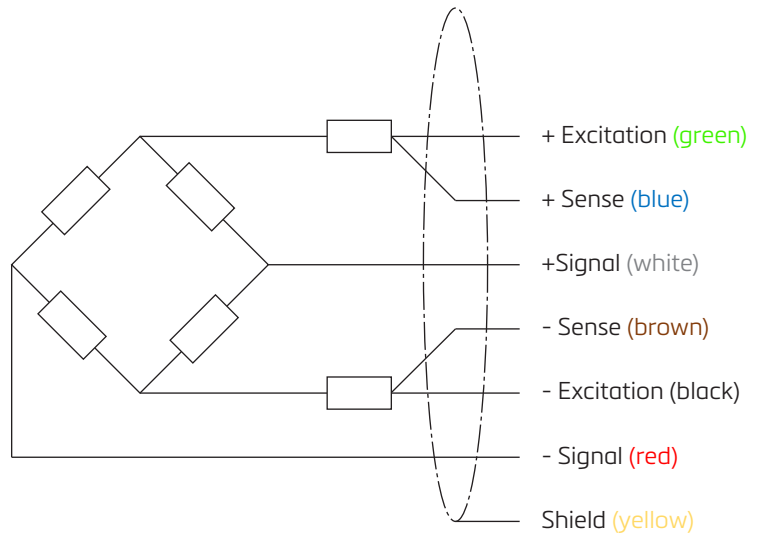
wiring

The load cell is provided with a black 26AWG
6-conductor cable

Standard cable jacket: Polyurethane

Standard cable length: 6m

The shield is floating



Performance, dimensions and wiring specifications based on DWG 0080497. Tolerances to ISO 2768-m.
Specifications and dimensions are subject to change without notice.