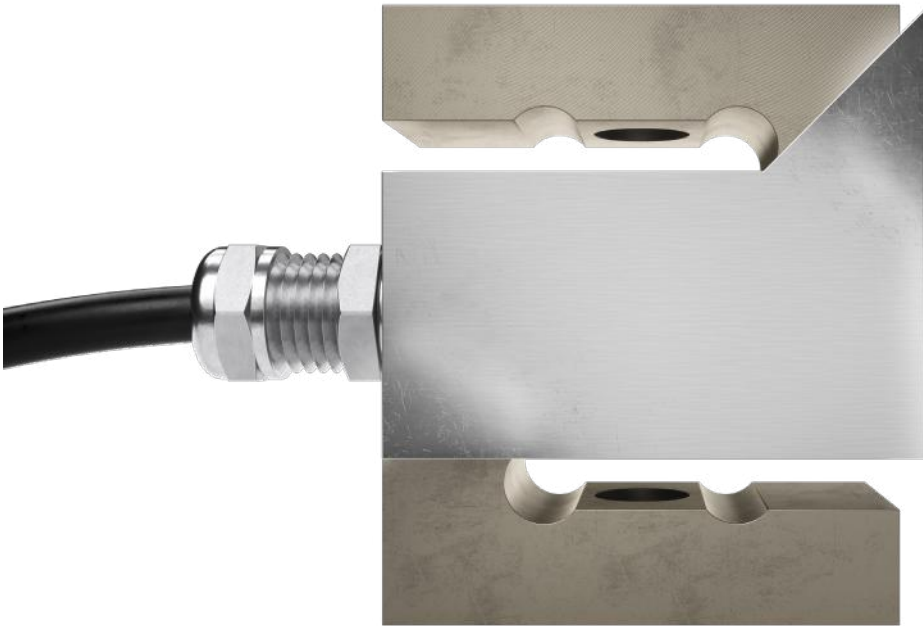


# UXT tension load cell



## 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



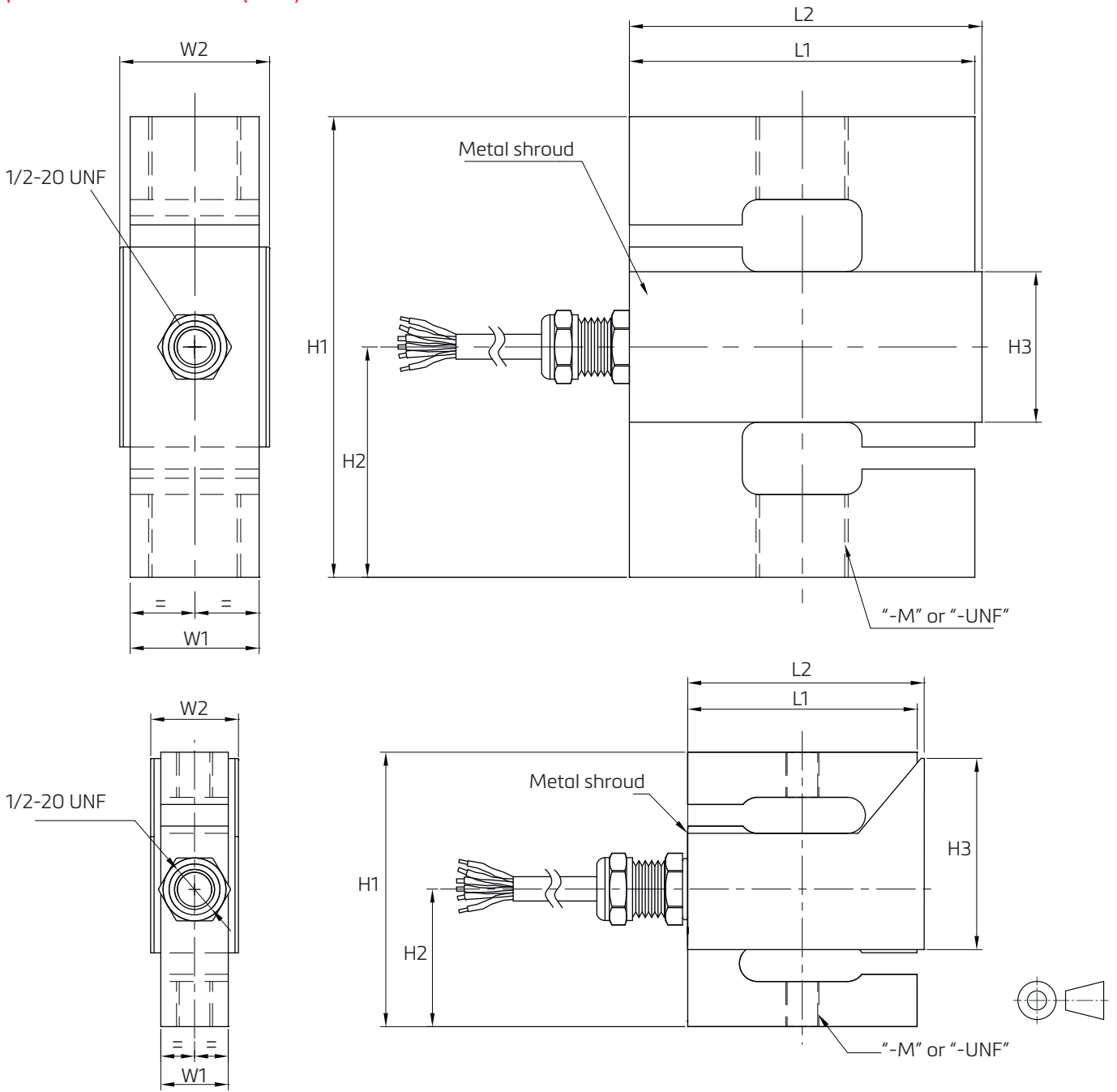
 **flintec**  
quality + precision

## specifications

Maximum capacity ( $E_{max}$ )	kg	50/100/250/500/1,000/2,000/5,000/7,500	
Rated Output (RO)	mV/V	$3 \pm 0.25\%$	
Calibration in mV/V/W (A...I classified)	%RO	$\leq 0.05$ ( $\leq 0.005$ )	
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	$\pm 0.0400$	$\pm 0.0200$
Hysteresis	%RO	$\pm 0.0400$	$\pm 0.0200$
Combined error	%RO	$\pm 0.0400$	$\pm 0.0200$
Creep error (30 mins)	%RO	$\pm 0.0600$	$\pm 0.0166$
Temperature effect on minimum dead-load output ( $TC_0$ )	%RO/10°C	$\pm 0.0400$	$\pm 0.0116$
Temperature effect on sensitivity ( $TC_{RO}$ )	%RO/10°C	$\pm 0.0200$	$\pm 0.0100$
Excitation voltage	V	5...15	
Zero balance	%RO	$\pm 5$	
Input resistance	$\Omega$	400 $\pm$ 50	
Output resistance	$\Omega$	350 $\pm$ 2	
Insulation resistance	M $\Omega$	$\geq 5,000$	
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

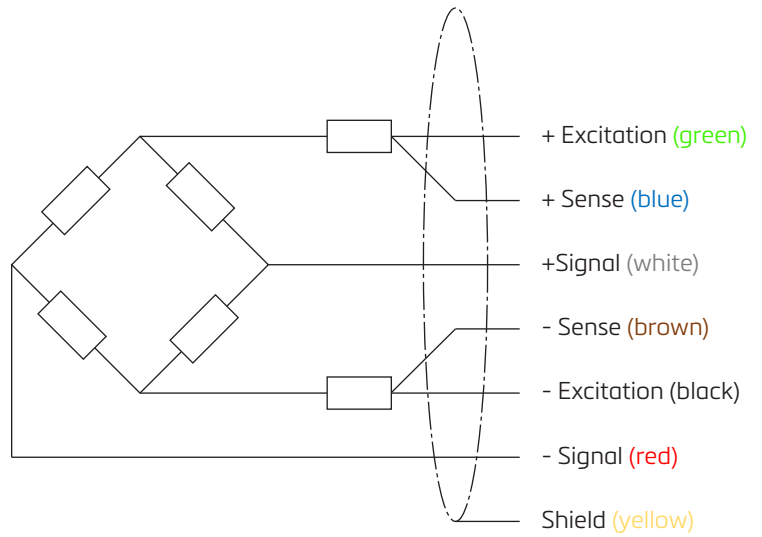
---

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.