

T66 Series: Bending Beam Load Cell



Standard Features

- Stainless steel load sensor
- Hermetically sealed, fully welded construction
- High durability Polyurethane cable
- IP68 / IP69K Protection
- 3000 divisions OIML R60 Class C
- Option: 6000 divisions OIML R60 Class C
- High Integrity cable entry
- C3 version available with 4 wire cable on request
- Available in high temperature version on request
- Available ATEX and IECEx version on request
- OIML certificate available upon request

- Available with optional Parylene coating on request

CAPACITIES (kg): 5, 10, 20, 30, 50, 75, 100, 200,500.

OIML R60. C3 or C6 precision class.

Stainless steel. **IP68/IP69K** protection.

This fully welded stainless steel bending beam load cell is hermetically sealed to IP68 / IP69K and can be used in the harshest industrial environments. It is suitable for weighing platforms, bag fillers, belt weighers and tank weighing in the Food Processing, Chemical, Pharmaceutical and general Bulk Handling industries.

- OIML C3 or C6 approved versions are available. A 6 wire cable (with Sense wires) is supplied as standard.
- For applications in aggressive environments where stress corrosion or acid attack is an issue, a special Parylene coating can be specified as an option. High temperature variants for continuous operation in environments up to 150°C are also available.

Specifications

Accuracy Class:

C3: 3000 [OIML C3 (3000 division) approval from 10-250kg]
C6: 6000 [OIML C6 (6000 division) approval from 50-250kg]

Load Cell Capacity (Emax):

C3: 5, 10, 20, 30, 50, 75, 100, 150, 200 (250, 300, 500 kg on request)
C6: 50, 75, 100, 150, 200 (250 kg on request)

Rated Output (Sn):

2 mV/V \pm 0.1 % [For 5-20kg capacity range, rated output (Sn) tolerance is \pm 0.2 %]

Combined Error:

C3: $< \pm$ 0.017 % Sn
C6: $< \pm$ 0.008 % Sn

Non-repeatability:

C3: $< \pm$ 0.015 % Sn
C6: $< \pm$ 0.01 % Sn

Minimum load cell verification interval (vmin) = Emax / Y

C3: Emax / 10000 kg
C6: Emax / 18000 kg

Creep (30 minutes):

C3: $< \pm$ 0.016 % Sn
C6: $< \pm$ 0.008 % Sn

Temperature Effect on Zero Balance:

C3: $< \pm$ 0.002 % Sn/ $^{\circ}$ C
C6: $< \pm$ 0.001 % Sn/ $^{\circ}$ C

Temperature Effect on Span:

C3: $< \pm$ 0.0012 % Sn/ $^{\circ}$ C
C6: $< \pm$ 0.0006 % Sn/ $^{\circ}$ C

Compensated Temperature Range:

-10 to +40 $^{\circ}$ C

Operating Temperature Range:

-30 to +70 $^{\circ}$ C

Safe Overload:

200 % Emax

Ultimate Overload:

300 % Emax

Zero Balance:

$< \pm$ 2 % Sn

Input Resistance:

400 Ω \pm 20

Output Resistance:

350 Ω \pm 3

Insulation Resistance:

$>$ 5000 M Ω

Recommended Supply Voltage:

5-15 V

Maximum Supply Voltage:

15 V

Environmental Protection:

IP68 / IP69K

Maximum deflection at Emax:

0.2-0.4 mm

Cable:

3 m length, 5.7 mm diameter, polyurethane material

Nominal Shipping Weight:

0.5 kg

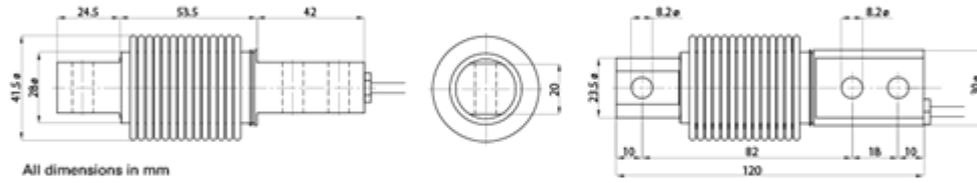
Wiring Code

<u>Wiring Code</u>	
<u>Color</u>	<u>Function</u>
RED	INPUT +
BLUE	INPUT-
BLACK	SENSE +
WHITE	SENSE -
GREEN	OUTPUT +
YELLOW	OUTPUT -

ATEX and IECEx version upon request

The T66 load cell has several ATEX and IECEx certification options.

Dimensions



Parts

Part #	Description
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Available Versions

T66-5KG-6C	T66 bending beam load cell, Max= 5kg.
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T66-10KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 10kg.
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T66-20KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 20kg.
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T66-30KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 30kg.
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T66-50KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 50kg.
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T66-50KG-OIML-C6	T66 bending beam load cell, C6 OIML approved, Max= 50kg.
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T66-75KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 75kg.
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T66-75KG-OIML-C6	T66 bending beam load cell, C6 OIML approved, Max= 75kg.
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T66-100KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 100kg.
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T66-100KG-OIML-C6	T66 bending beam load cell, C6 OIML approved, Max= 100kg.
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T66-150KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 150kg.
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T66-150KG-OIML-C6	T66 bending beam load cell, C6 OIML approved, Max= 150kg.
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T66-200KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 200kg.
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T66-200KG-OIML-C6	T66 bending beam load cell, C6 OIML approved, Max= 200kg.
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T66-500KG-6C	T66 bending beam load cell, C3 OIML approved, Max= 500kg. * The T66-500KG-6C load cell is not compatible with any LeverMount kit. A dedicated foot should be requested separately since it is not included.
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Options

Part #	Description
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Mounting kits

LEVERMOUNT-LITE-SC	LEVERMOUNT mounting accessory for T66 load cells - special self-centering version SC.
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LA66-BASEPLATE500	Mounting accessory only for T66-500KG load cell, consists of mounting hardware and baseplate.
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