



Product Description

The type BK2 is a stainless steel shear beam load cell with an improved potting. It is suitable for use in industrial environments.

Application

- Platform scales, small hopper and tank scales

Key Features

- Wide range of capacities from 200 kg to 2000 kg
- Stainless steel construction
- Environmental Protection IP67
- Very low profile design
- High input resistance
- Calibration in mV/V/Ω

Approvals

- For 500...2000 kg:
OIML approval to C3 (Y = 10 000)
- NTEP approval to 5000 intervals, Class III
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

Packed Weight

■ Capacity (kg)	200	500	1000	2000
Weight (kg)	0.67	0.74	0.82	0.99

Available Accessories

- Compatible range of application hardware
- Compatible range of electronics

Specifications

Maximum capacity	(E _{max})	kg	200 / 500 / 1 000 / 2 000	500 / 1 000 / 2 000
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
Temperature effect on minimum dead load output	(TC ₀)	%*R ₀ /10°C	≤ ± 0.0400	≤ ± 0.0140
Temperature effect on sensitivity	(TC _{R0})	%*R ₀ /10°C	≤ ± 0.0200	≤ ± 0.0100
Combined error		%*R ₀	≤ ± 0.0500	≤ ± 0.0200
Non-linearity		%*R ₀	≤ ± 0.0400	≤ ± 0.0166
Hysteresis		%*R ₀	≤ ± 0.0400	≤ ± 0.0166
Creep error (30 minutes) / DR		%*R ₀	≤ ± 0.0600	≤ ± 0.0166
Rated Output	(R ₀)	mV/V	2 ± 0.1%	
Calibration in mV/V/Ω (A...I classified)		%	≤ ± 0.05 (≤ ± 0.005)	
Zero balance		%*R ₀	≤ ± 5	
Excitation voltage		V	5...15	
Input resistance	(R _{LC})	Ω	1 100 ± 50	
Output resistance	(R _{out})	Ω	1 000 ± 2	
Insulation resistance (100 V DC)		MΩ	≥ 5 000	
Safe load limit	(E _{lim})	%*E _{max}	200	
Ultimate load		%*E _{max}	300	
Safe side load		%*E _{max}	100	
Compensated temperature range		°C	-10...+40	
Operating temperature range		°C	-20...+65 (ATEX -20...+60)	
Load cell material			stainless steel 17-4 PH (1.4548)	
Sealing			potted	
Protection according EN 60 529			IP67	

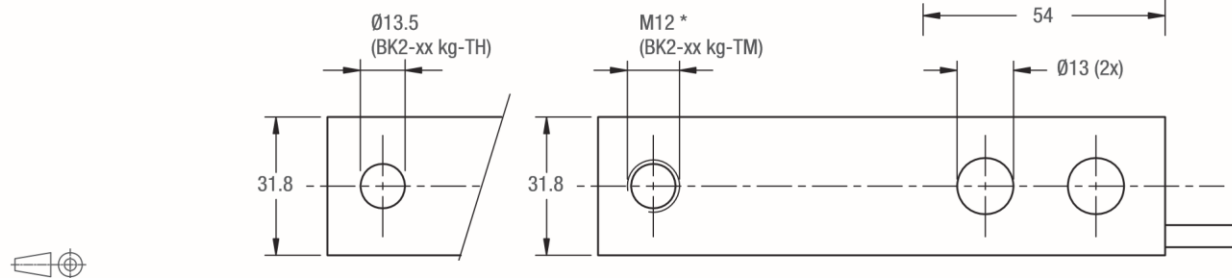
The limits for Non-Linearity, Hysteresis, and TC_{R0} are typical values.

The sum of Non-linearity, Hysteresis and TC_{R0} meets the requirements according to OIML R60 with p_{LC}=0.7.

Dimensions (in mm)

Type	H	Mounting bolts	Torque**
BK2-200 kg	12.7	M12 8.8	90 Nm
BK2-500 kg	15.9	M12 8.8	90 Nm
BK2-1000 kg	19.1	M12 8.8	90 Nm
BK2-2000 kg	25.4	M12 10.9	120 Nm

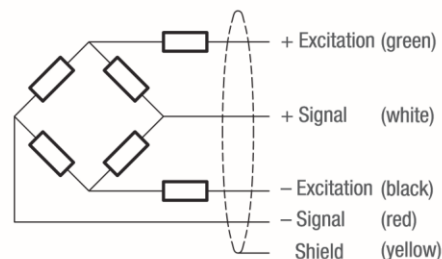
** Torque values assume oiled threads.



* Unified thread 1/2-20 UNF is available (BK2-xx kg-TU-Cx).

Wiring

- The load cell is provided with a shielded, 4 conductor cable (AWG 24). Cable jacket polyurethane
- Cable length: 3 m
- Cable diameter: 5 mm
- The shield is floating
(On request the shield can be connected to the load cell body)



C A M B R I D G E

FLINTEC **LOAD CELLS**

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>CAPACITY</u>	<u>LIST</u>
BK 2	STAINLESS STEEL BEAM LOAD CELL	200 KG	\$ 178.
		500 KG	\$ 178.
		1,000 KG	\$ 178.
		2,000 KG	\$ 178.

F.O.B.: HONEY BROOK, PA

PRICES EFFECTIVE: 01/01/18

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