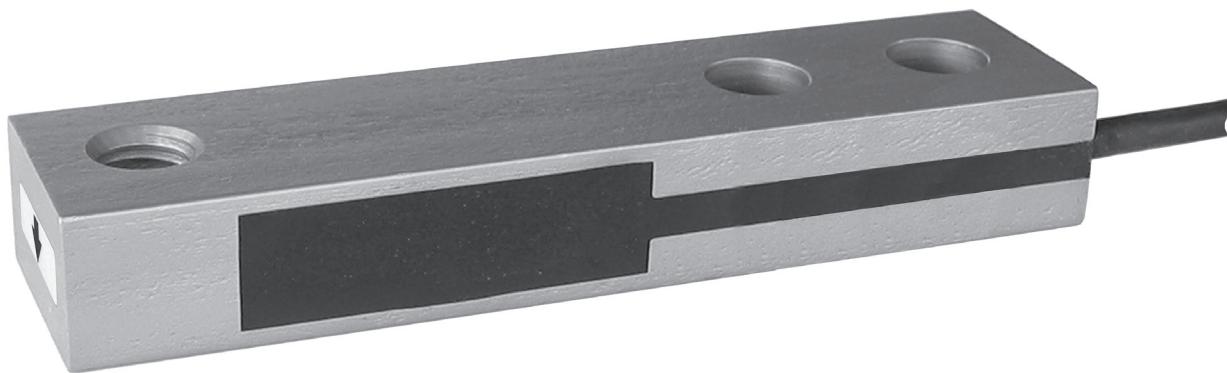


Type BK2 Load Cell



Product Description

The type BK2 is a stainless steel beam type 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 ($Y = 10\,000$)
- ATEX hazardous area approval for Zone
0, 1, 2, 20, 21 and 22
- FM hazardous area approval

Packed Weight

■ Capacity (kg)	200	500	1 000	2 000
Weight (kg)	0.67	0.74	0.82	0.99

Available Accessories

- Compatible range of application hardware
- Compatible range of electronics

BK2 Specifications

Maximum capacity (E _{max})	kg	200 / 500 / 1000 / 2000	500 / 1000 / 2000
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 (T _{C0})	% * RO / 10°C	≤ ± 0.0400	≤ ± 0.0140
Temperature effect on sensitivity (T _{CR0})	% * RO / 10°C	≤ ± 0.0200	≤ ± 0.0100
Combined error	% * RO	≤ ± 0.0500	≤ ± 0.0200
Non-linearity	% * RO	≤ ± 0.0400	≤ ± 0.0166
Hysteresis	% * RO	≤ ± 0.0400	≤ ± 0.0166
Creep error (30 minutes) / DR	% * RO	≤ ± 0.0600	≤ ± 0.0166
Rated Output (RO)	mV/V	2 ± 0.1%	
Calibration in mV/V/Ω (A...I classified)	%	≤ ± 0.05 (≤ ± 0.005)	
Zero balance	% * RO	≤ ± 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 DIN 40.050		IP67	

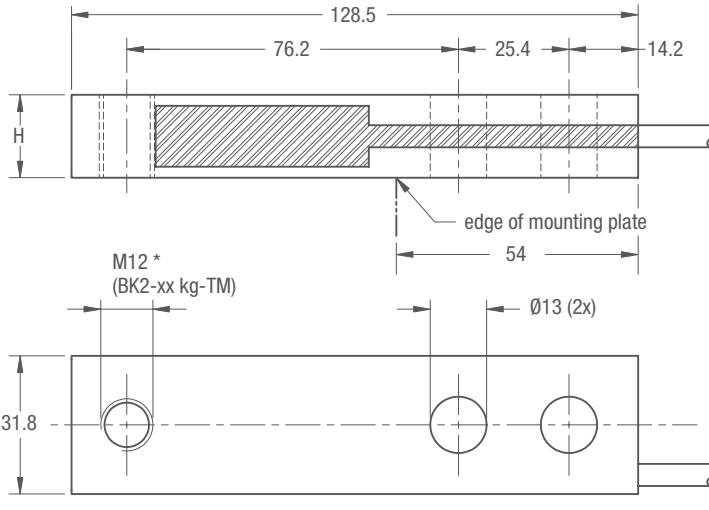
The limits for Non-Linearity, Hysteresis, and T_{CR0} are typical values.

The sum of Non-linearity, Hysteresis and T_{CR0} 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)

