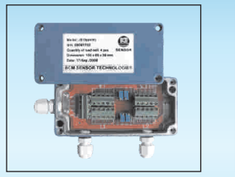
Sensor Signal Conditioner

model Nr.:	A1
number of sensors:	1-sensor/load cell
input sensitivity:	1.0 mV/V, ..., 12.0 mV/V
output signal:	4~20 mA, 0~10 mA, 0~5 Vdc, 0~10 Vdc
accuracy:	0.1 %fs
excitation for sensors:	5 Vdc, ..., 10 Vdc
supply voltage:	12 Vdc, ..., 30 Vdc

Junction Box

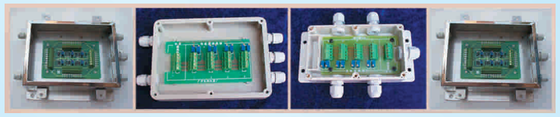
	A3	JB
number of sensors:	4-sensors/load cells	4-, 6-, 8-load cells
input sensitivity:	1.0 mV/V, ..., 12.0 mV/V	1.0 mV/V, ..., 3.0 mV/V
output signal:	same as A1	N.A.
accuracy:	0.1 %fs, 0.2 %fs	N.A.
excitation for sensors:	5 Vdc, ..., 10 Vdc	N.A.
supply voltage:	12 Vdc, ..., 24 Vdc	N.A.

Weighing Indicator



	WD21
input signal:	-6 ~ +21 mV
	- 5 digits LCD
	- automatic track of zero-point
	- peak hold function & overload warning
	- automatic tare function
	- AC/DC power supply (battery = 100 hrs)

The listed specifications are subject to change without prior notice.



Junction Boxes

Minicell Calibration Line

Deadweight Tester

Temp. Compensation Chamber

Nomenclature of BCM Load Cells

The model number of BCM load cells, including force- and torque-transducers, consists of 4 digits, such as 1661, 3418, 6998 and so on.

The first two digits represent the working principle of load cells, the third digit indicates the material from which the load cell is made, and the last digit is a sequence number of that load cell in the loadcell category of the same working principle.

Working principle of BCM load cells:

- 11-series: diaphragm (button-like) load cells
- 12-series: ring-type load cells
- 13-series: shear-web load cells
- 14-series: column load cells
- 15-series: bending-beam load cells
- 16-series: parallel bending-beam (single point) load cells
- 18-series: rotary torque transducers
- 19-series: static torque transducers
- 29-series: compressive & tensile force transducers
- 34-series: single-ended shear beam load cells
- 39-series: bellow-sealed bending beam load cells
- 57-series: shear-beam load pins (single- & double-ended)
- 67-series: hermetically-sealed load pins
- 69-series: S-beam load cells

Example: 3418 load cell, here “34” represents that, the working principle of this load cell is shear-beam with one end fixed to a mechanical supporter.

Material from which the BCM load cell is made:

- -1-: nickel plated mild steel AISI4340
- -3-: ceramic (97% Al_2O_3)
- -6-: aluminum alloy 2024
- -9-: 17-4PH stainless steel
- -2-: other types of alloy

Example: 3418, here “1” indicates that this load cell is made from mild steel AISI4340 with nickel plated surface treatment.

Sequence number or code of the load cells among the same load cell category:

-0, -1, -2,..., -9, or -a, -b, -c,..., -z or -A, -B, -C, ...,-Z

example: 3418, here “8” is the sequence number of this load cell in the 34-series (single-ended shear beam) load cell category.

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BELGIUM
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website: www.bcmsensor.com
email: sales@bcmsensor.com

Your Local Distributor:

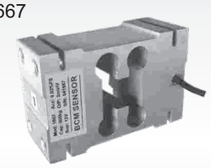
Ref.: LC/PO/EN/1705

BCM Load Cells

Product Overview

BCM SENSOR TECHNOLOGIES bvba

Single Point Load Cells

model	1661	1664	1667
			
material:	aluminum alloy 2024	aluminum alloy 2024	aluminum alloy 2024
capacity:	3 kg, ..., 50 kg	50 kg, ..., 500 kg	50 kg, ..., 2000 kg
overload:	120 %fs	120 %fs	120 %fs
output:	2.0 mV/V	2.0 mV/V	2.0 mV/V
accuracy:	0.03 %fs, OILM C3	0.03 %fs, OILM C3	0.02 %fs, OILM C3
excitation:	12 V max.	12 V max.	12 V max.
protection:	IP65	IP65	IP65

Bending Beam

model	3911/3991
	
material:	AISI4340/17-4ph SS
capacity:	5 kg, ..., 500 kg
overload:	150 %fs
output:	2.0 mV/V
accuracy:	0.02 %fs
excitation:	12 V max.
protection:	IP66, IP67*, IP68*

Shear Beam Load Cells, Single-Ended

model	3417/3497	3418/3498	3419/3499
			
material:	AISI4340/17-4ph SS	AISI4340/17-4ph SS	AISI4340/17-4ph SS
capacity:	500 kg, ..., 2 t	200 kg, ..., 5 t	0.5 t, ..., 50 t
overload:	150 %fs	150 %fs	150 %fs
output:	2.0 mV/V	2.0 mV/V	2.0 mV/V
accuracy:	0.02 %fs	OIML C3	0.02 %fs
excitation:	12 V max.	12 V max.	12 V max.
protection:	IP66	IP66, IP67*, IP68*	IP66, IP67*, IP68*

Double-Ended Load Pins

model	6798(A)	5798
		
material:	17-4ph SS	17-4ph SS
capacity:	0.5 t, ..., 100 t	10 kN, ..., 1000 kN
overload:	300 %fs	200 %fs
output:	1.0 mV/V**	2.0 mV/V**
accuracy:	1 %fs, 2 %fs	0.2 %fs, 0.5 %fs, 1 %fs
excitation:	12 V max.	12 V max.
protection:	IP67*, IP68*	IP66, IP67*, IP68*

Single-Ended Load Pins

model	6795	5795
		
material:	17-4ph SS	17-4ph SS
capacity:	0.3 t, ..., 50 t	10 kN, ..., 300 kN
overload:	300 %fs	200 %fs
output:	2.0 mV/V** (option: 1.0 mV/V**)	2.0 mV/V**
accuracy:	1 %fs, 2 %fs	0.2 %fs, 0.5 %fs, 1 %fs
excitation:	12 V max.	12 V max.
protection:	IP67*, IP68*	IP66, IP67*, IP68*

S-Beam

model	6918/6998
	
material:	AISI4340/17-4ph SS
capacity:	500 kg, ..., 30 t
overload:	150 %fs
output:	3.0 mV/V
accuracy:	0.02 %fs
excitation:	12 V max.
protection:	IP66, IP67*, IP68*

Compression Load Cells

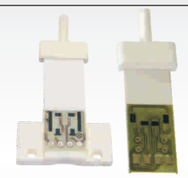
model	1211/1291	1495
		
material:	AISI4340/17-4ph SS	17-4ph SS
capacity:	1 t, 2 t, 3 t, 5 t, 7 t, 10 t	0.5 t, ..., 500 t
overload:	120 %fs	150 %fs
output:	2.0 mV/V	1.5 mV/V
accuracy:	0.1 %fs, 0.2 %fs, 0.5 %fs	0.05 %fs, 0.1 %fs, 0.2 %fs
excitation:	12 V max.	15 V max.
protection:	IP66, IP67*, IP68*	IP66, IP67*

*: IP67 and IP68 are only available for the load cells made from 17-4PH stainless steel.
**: Amplified output signal, such as 4~20 mA, 0~5 Vdc or 0.5~4.5 Vdc, is available on request.

Compression & Tension Load Cells and Force Transducers

model	1312/1392	2912/2992	UF	UG
				
material:	AISI4340/17-4ph SS	AISI4340/17-4ph SS	aluminum alloy 2024	aluminum alloy 2024
capacity:	2 t, ..., 300 t	5 kN, ..., 300 kN	1 N, ..., 2.5 kN	3 N, ..., 300 N
overload:	150 %fs	150 %fs	120 %fs	overload protected
output:	2.0 mV/V	1.5 mV/V	2.0 mV/V	2.0 mV/V
accuracy:	0.03 %fs, 0.05 %fs, 0.1 %fs	0.1 %fs, 0.2 %fs	0.1 %fs, 0.2 %fs, 0.5 %fs	0.1 %fs, 0.2 %fs, 0.5 %fs
excitation:	12 V max.	10 V	10 V	10 V
protection:	IP66, IP67*, IP68*	IP66, IP67*	IP65	IP65

Miniature Force Transducers

model	1531	159A	156L
			
material:	ceramic	stainless steel	aluminum alloy 2024
capacity:	0.1 kg, ..., 0.4 kg	1.2 N, ..., 500 N	5 N, ..., 200 N
overload:	120 %fs	150 %fs	150 %fs
output:	3.3 mV/V	1.5 mV/V	2.0 mV/V
accuracy:	0.5 %fs, 1 %fs	0.1 %fs, 0.2 %fs, 1 %fs	0.1 %fs, 0.2 %fs
excitation:	5, ..., 25 V	6 V	6 V
protection:	IP65	IP65	IP65

Static Torque Transducers

model	1911/1991	1913/1993	1915/1995
			
material:	AISI4340/17-4ph SS	AISI4340/17-4ph SS	AISI4340/17-4ph SS
capacity:	100 Nm, ..., 1 kNm	30 Nm, ..., 300 Nm	100 lb.in., ..., 5,000 lb.ft.
overload:	120 %fs	120 %fs	120 %fs
output:	2.0 mV/V	2.0 mV/V	2.0 mV/V
accuracy:	0.3 %fs, 0.5 %fs	0.3 %fs, 0.5 %fs	0.3 %fs, 0.5 %fs
excitation:	12 V	12 V	12 V
protection:	IP66	IP66	IP66

Rotary Torque Transducers

model	1811	1865	1816
			
material:	AISI4340	aluminum alloy 2024	AISI4340
capacity:	5 Nm, ..., 300 kNm	0.005 Nm, ..., 2 Nm	50 Nm, ..., 20 kNm
output:	5~15 kHz (square wave: ±6 V)	5~15 kHz (square wave: ±6 V)	5~15 kHz (square wave: ±6 V)
accuracy:	0.5 %fs	0.5 %fs	0.5 %fs
supply:	±15 V	±15 V	±15 V
speed:	max. 8000 rpm	max. 3000 rpm	max. 10000 rpm
protection:	IP 66	IP 66	IP 66