

## Datasheet: B6N load cell

OIML test certificate no. TC8009 Revision 0

OIML C of C no. R60/2000-NL1-10.27

OIML test certificate no. D09-10.10

OIML C of C no. R60/2000-DE1-10.04

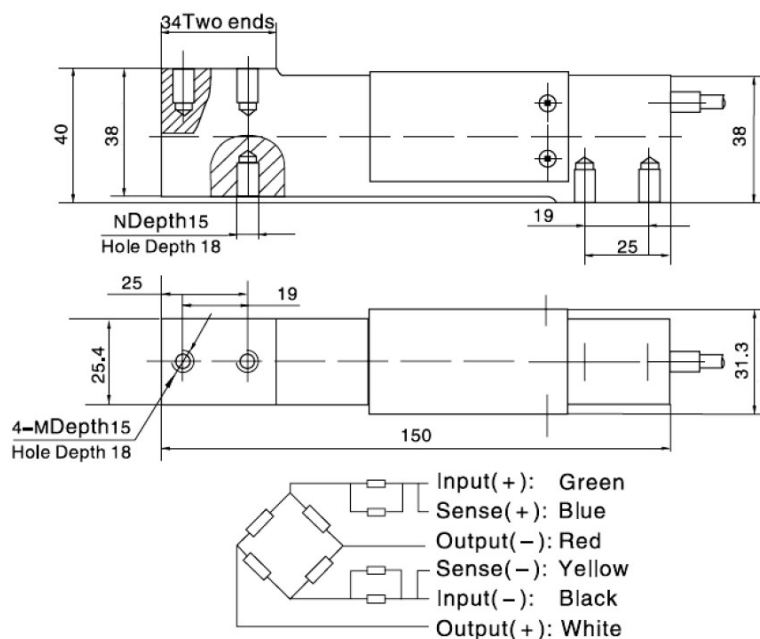
Capacity	Accuracy	Part-Number
7 kg	Cx	B6N-Cx-7kg-1B6
10 kg	Cx	B6N-Cx-10kg-1B6
15 kg	Cx	B6N-Cx-15kg-1B6
20 kg	Cx	B6N-Cx-20kg-1B6
30 kg	Cx	B6N-Cx-30kg-1B6
50 kg	C3	B6N-C3-50kg-1B6
75 kg	C3	B6N-C3-75kg-1B6
100 kg	C3	B6N-C3-100kg-1B6
150 kg	C3	B6N-C3-150kg-1B6
200 kg	C3	B6N-C3-200kg-1B6



### Specification:

Accuracy class		OIML C4	OIML C3	
Output sensitivity ( = FS )	mV/V		2.0 ± 0.2	
Maximum capacity ( E <sub>max</sub> )	kg	7, 10, 15, 20, 30	7, 10, 15, 20, 30	50, 75, 100, 150, 200
Maximum number of load cell intervals ( n <sub>LC</sub> )		4000	3000	
Ratio of minimum LC verification interval Y = E <sub>max</sub> / V <sub>min</sub>		15000	10.000	9000
Minimum Dead Load Output Return ( Z = ½ * E <sub>max</sub> / DR )		4000	3000	6000
Combined Error	%FS	≤ ± 0.0174	≤ ± 0.020	
Minimum dead load	kg		0	
Safe overload	of E <sub>max</sub>		150 %	
Ultimate overload	of E <sub>max</sub>		300 %	
Zero balance	of FS		≤ ± 1.0 %	
Excitation, recommended voltage	V		5 ~ 12	
Excitation maximum	V		18	
Terminal resistance, input	Ω		430 ± 60	
Terminal resistance, output	Ω		351 ± 2	
Insulation impedance	MΩ		≥ 5000 ( at 50VDC )	
Temperature range, compensated	°C		-10 ~ +40	
Temperature range, operating	°C		-35 ~ +65	
Element material			Stainless steel	
Ingress Protection (according to EN 60529)			IP67	
Recommended torque on fixation bolts	Nm		10	
ATEX classification		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C	II3G nL IIC T4

### Outline Dimensions in mm



#### Note:

- Machining thread hole M and N basing on customers' requirements.
- When customers require imperial:  
 Thread hole M is 1/4-20UNC-2B,  
 Thread hole N is 1/4-28UNF-2B.
- When customers require metric:  
 Thread holes M and N are M6-6H  
 respectively and there will be "M" under  
 exit hole.

#### Wiring:

- Shielded, 6 conductor cable.
- Standard cable length: 1m.
- Cable type and cable length for customer's own application are available on request.
- Shield not connected to element.