

SB-D Single beam digital load cell

Description

Capacities: (E_{max})
0.5, 1, 2, 3, 5, 8, 10, 20t

Rated output:
Digital: 30,000 or 1,000,000d

Accuracy:
C3 OIML R60

Material of elastomer:
Alloy steel or stainless steel

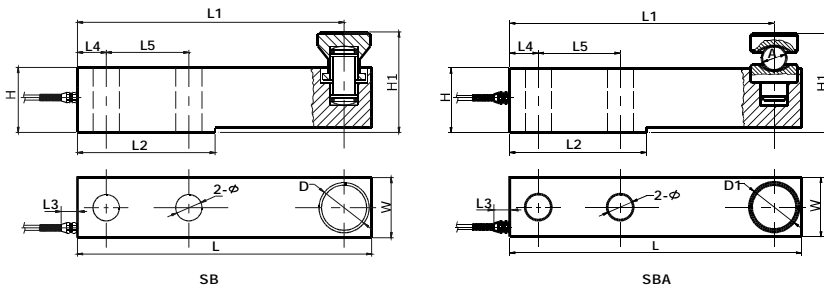
Execution standard:
GB/T 7551-1997 Certificate
(eqv OIML R60)
Combined error: 0.015%

Sealed to IEC 529:
Protection grade: IP67 or IP68.
Protection against total immersion
in water for 30 minutes at a pressure
corresponding to a 1 m head of water.



Dimensions

(In mm. 1mm = 0.03937 inches)



CAP./SIZE	L	L1	L2	L3	L4	L5	H	H1	φ	D	D1	W	A
0.5, 1, 2, 3t	203	181	95	24	19	64	43	57.9	13	35	39	37	15.9
5, 8t	235	213	110	24	23	66	52	78.9	21	42	44	48	25.48
10t	279	247	133	24	25	82	67	127.7	28	57	58	60	38.1
20t	318	280	153	24	32	89	82.5	143.5	34	70	69	70	50.8

Specification

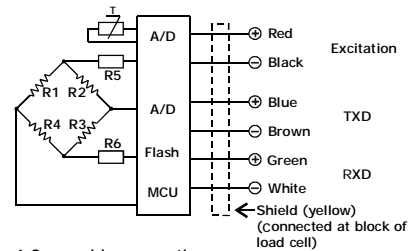
Item \ Parameter	C3	Unit
Rated load (E_{max}):	0.5, 1, 2, 3, 5, 8, 10, 20	t
Maximal numbers of load cell verification Intervals (N_{lc}):	3000	d
Minimum load cell verification intervals Intervals (V_{min}):	0.01	% of rated load
Rated output (C_n):	30,000 or 100,000	d
*Combined error:	0.015	±% of rated output
Temperature effect on sensitivity (T_{kc}):	0.0012	±% of rated output/°C
Temperature effect on zero balance (T_{k0}):	0.0008	±% of rated output/°C
Zero balance:	1.0	±% of rated output
Measuring rate A/D:	50/25	/Sec
Baudrate:	9600/19200	Bps
Filter mode 1:	3-0.05(Low pass filter)	HZ
Filter mode 0:	8-3(Low pass filter)	HZ
Maximum transmission distance:	1200	m
Safe overload:	150	% of rated capability
Ultimate overload:	300	% of rated capability
Operating temperature range:	-20 ~ +70 / -20 ~ +160	°C / °F
Recommend excitation:	8-15	V (DC or AC)
Maximum excitation:	24	V (DC or AC)
Material of elastomer:	Alloy steel / Stainless steel	
Protection class:	IP67/IP68	

The data for deviation of synthesis error, T_{k0} , T_{kc} are typical values. The sum of these data meets the requirements according to OIML R60

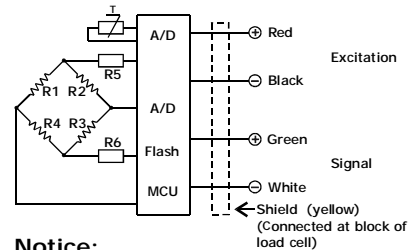
Circuit Diagram

Electrical Termination

6 Core cable connection:



4 Core cable connection:



Notice:

The 7 and/or 5 wires of cable should be short circuit before using.

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