



## S-Type Load Cell

# B-ST301

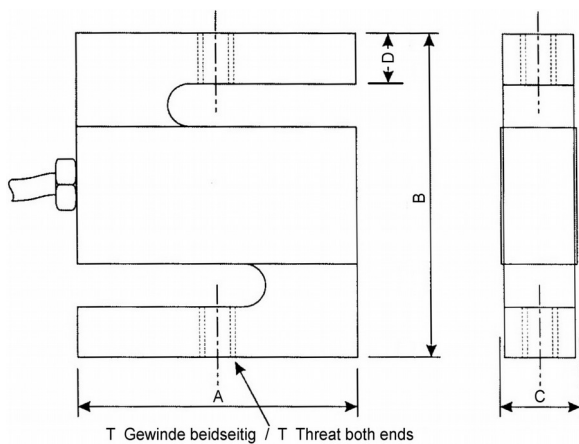
Capacities: 0.05, 0.1, 0.25, 0.5, 1, 2, 2.5, 5 t.



### Characteristics:

- For tension and compression
- Parallel connection with other load cells possible
- Simple mounting
- Mounting accessories available as option
- Load cell made of sensor alloy steel
- Sensitivity 2.00 mV/V
- Accuracy class 0.02%
- Environmental protection IP 67

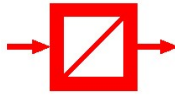
### Dimensions:



Capacity [t]	Dimensions [mm]				T [Thread]
	A	B	C	D	
0.05	50,8	64	12,7	15	M8
0.1 / 0.25 / 0.5	50,8	76	19	14	M12 x 1.75
1	50,8	76	25,4	12	M12 x 1.75
2 / 2.5 / 5	76,2	108	25,4	20	M18 x 1.5

Dimensions in mm.

Cable Diameter max. 5 mm, Cable Length 3 m (standard) or 2.5 m (0.5t version P), 4-wire.



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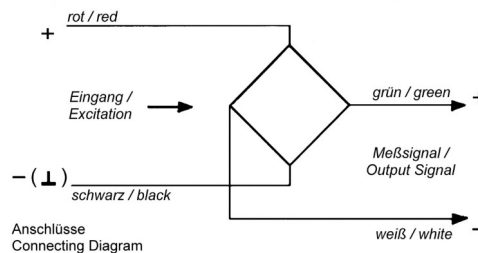
**B-ST301**

*Technical Specifications:*

Capacity	(E <sub>max</sub> )	[t]	0.05, 0.1, 0.25, 0.5, 1, 2, 2.5, 5.
Accuracy Class			0.02%
Maximum Number of Load Cell Intervals	(n <sub>LC</sub> )		3000
Minimum Load Cell Verification Interval	(V <sub>min</sub> )	[% of E <sub>max</sub> ]	0.007
Sensitivity	(C <sub>n</sub> )	[mV/V]	2.00 ± 0.02
Non-Linearity	(d <sub>lin</sub> )	[% of C <sub>n</sub> ]	≤ 0.02
Zero Balance		[% of C <sub>n</sub> ]	≤ 1
Temperature Effect on Zero Balance	(TC <sub>0</sub> )	[%C/10K]	≤ 0.0125
Temperature Effect on Sensitivity	(TC <sub>C</sub> )	[%C/10K]	≤ 0.008
Minimum Dead Load		[% of E <sub>max</sub> ]	0
Safe Load Limit	(E <sub>lim</sub> )	[% of E <sub>max</sub> ]	150
Breaking Load	(E <sub>d</sub> )	[% of E <sub>max</sub> ]	200
Deflection at E <sub>max</sub>		[mm]	≤ 0.50
Creep (over 30 Minutes)		[% of C <sub>n</sub> ]	≤ 0.0188
Zero Return after 30 Minutes		[% of C <sub>n</sub> ]	≤ 0.0188
Excitation		[V]	5 ... 12
Input Resistance	(R <sub>LC</sub> )	[Ω]	350 ± 15
Output Resistance	(R <sub>OUT</sub> )	[Ω]	350 ± 3
Insulation Resistance		[MΩ]	> 5000 (at 50V DC)
Nominal Temperature Range		[°C]	-10 ... +40
Service Temperature Range		[°C]	-35 ... +65
Storage Temperature Range		[°C]	-40 ... +70
Material of Load Cell			Sensor Alloy Steel
Certification according to ATEX (Ex)			none
Protection Class to EN 60 529			IP67

*Cable/Connections:*

- 4-wire cable, 3 m (standard) long or 2.5 m (0,5t version P) long;
- Cable screened, screen not connected with load cell body;
- Cable diameter approx. 5 mm;
- Wires' ends stripped and tinned.



Excitation +	red
Excitation -	black
Signal +	green
Signal -	white

*Optional Accessories:*



Rod End Bearings for Load Cells ST, maintenance free, various sizes



Load Cell Junction Box, Model AK, Stainless Steel Housing IP65



Further weighing technology (e. g. weighing controllers) on [www.gbuettner.de](http://www.gbuettner.de).