



## Series SBCK100

Shear Beam Load Cell (100kg ~ 10ton)



The SBCK100 series single ended shear beam load cell is designed for high accuracy platform scales and a variety of process weighing applications.

- Alloy tool steel construction for high accuracy.
- Electroless nickel plated for corrosion resistance.
- Fully sealed to IP67.

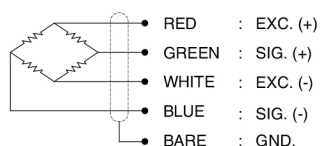
## SPECIFICATIONS

### ORDERING INFORMATION

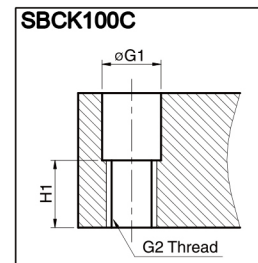
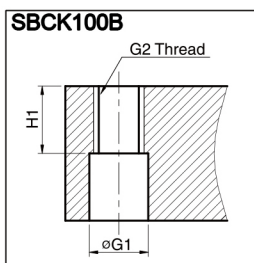
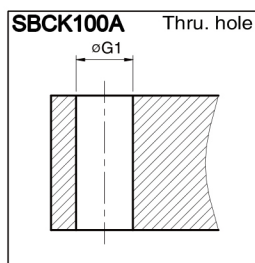
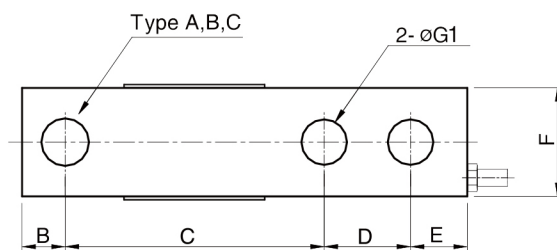
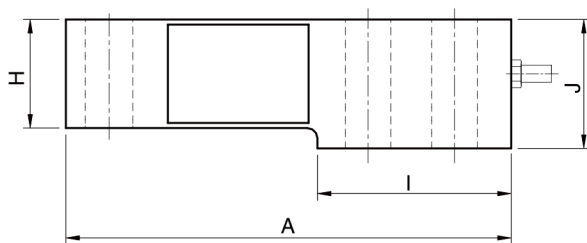
#### SBCK100A - 5T

| TYPE     | CAPACITY          |
|----------|-------------------|
| SBCK100A | 100, 200, 500kg   |
| SBCK100B | 1, 2, 3, 5, 10ton |
| SBCK100C |                   |

### WIRING INFORMATION



| TYPE                          | SBCK100A, SBCK100B, SBCK100C                                                                                    |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Rated capacity (R.C.)         | 100, 200, 500kg, 1, 2, 3, 5, 10 ton                                                                             |
| Rated output(R.O.)            | 3.0mV/V $\pm$ 0.25%                                                                                             |
| Non-linearity                 | $\leq$ 0.03% R.O.                                                                                               |
| Hysteresis                    | $\leq$ 0.02% R.O.                                                                                               |
| Non-repeatability             | $\leq$ 0.02% R.O.                                                                                               |
| Creep error                   | $\leq$ 0.03% in 20min.                                                                                          |
| Zero balance                  | $\leq$ 1% R.O.                                                                                                  |
| Compensated temperature range | -10 ~ 70°C                                                                                                      |
| Operating temperature range   | -20 ~ 80°C                                                                                                      |
| Temp. effect on rated output  | $\leq$ 0.03% LOAD/10°C                                                                                          |
| Temp. effect on zero balance  | $\leq$ 0.03% R.O./10°C                                                                                          |
| Terminal input resistance     | 400 Ohms $\pm$ 20 Ohms                                                                                          |
| Terminal output resistance    | 350 Ohms $\pm$ 5 Ohms                                                                                           |
| Insulation resistance (Min.)  | 2000 MOhms at 50V DC                                                                                            |
| Excitation voltage            | 10V(Recommended), 15V(Max.)                                                                                     |
| Electrical connection         | 200kg ~ 2t $\varnothing$ 5mmx3m(Standard), 6m(Option)<br>3, 5t(10t) $\varnothing$ 5mmx6m( $\varnothing$ 7mmx6m) |
| Protection class              | meets IP 67                                                                                                     |
| Safe overload                 | 150% R.C                                                                                                        |
| Ultimate overload             | 300% R.C                                                                                                        |



## Dimension-mm

| Capacity                       | A     | B    | C     | D    | E    | F    | G1   | G2        | H    | H1 | I    | J    | Weight(kg) |
|--------------------------------|-------|------|-------|------|------|------|------|-----------|------|----|------|------|------------|
| 100kg ~ 2t<br>(980.7N~19.61kN) | 131   | 12.7 | 76.2  | 25.4 | 16.7 | 32   | 13.5 | M12x1.75P | 32   | 16 | 57   | 38   | 0.8        |
| 3, 5t<br>(29.42, 49.03kN)      | 171.5 | 19   | 95.3  | 38.1 | 19.1 | 38.1 | 20.5 | M20x2.5P  | 38   | 19 | 76.2 | 44.5 | 1.8        |
| 10t<br>(98.07kN)               | 222.3 | 25.4 | 120.7 | 50.8 | 25.4 | 50.8 | 26.2 | M24x2P    | 50.8 | 25 | 108  | 57.2 | 4.1        |

\* Specifications are subject to change without notice

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