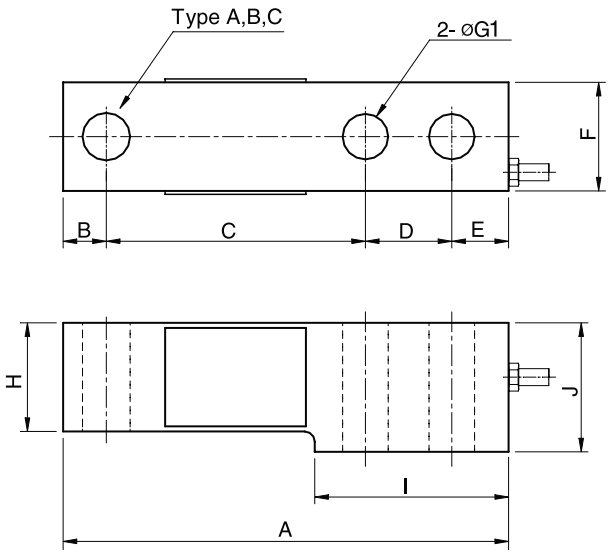
# Model OSBK Series

Shear Beam Load Cell (200kg ~10ton)

The OSBK 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 sealded to IP67.




## SPECIFICATIONS

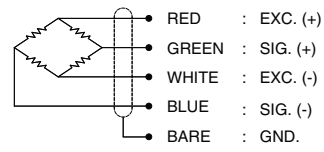
| MODEL | | OSBKA, OSBKB, OSBKC |
|---|---|---|
| Rated capacity (R.C.) | | 200, 500kg, 1, 2, 3, 5, 10 t |
| Rated output(R.O.) | | 3mV/V ± 0.25% |
| Non-linearity | | ≤0.03% R.O. |
| Hysteresis | | ≤0.02% R.O. |
| Non-repeatability | | ≤0.02% R.O. |
| Creep error | | ≤0.03% in 20min. |
| Zero balance | | ≤1% R.O. |
| Compensated temperature range | | -10 ~ 70°C |
| Operating temperature range | | -20 ~ 80°C |
| Temp. effect on rated output | | ≤0.03% LOAD/10°C |
| Temp. effect on zero balance | | ≤0.03% R.O./10°C |
| Terminal input resistance | | 400 Ohms ± 20 Ohms |
| Terminal output resistance | | 350 Ohms ± 5 Ohms |
| Insulation resistance (Min.) | | 2000 MOhms at 50V DC |
| Excitation voltage | | 10V(Recommended), 15V(Max.) |
| Electrial connection | 200kg ~ 2t | Ø5mmx3m(Standard), 6m(Option) |
| (22AWG x 4Core Shielded) | 3, 5t(10t) | Ø5mmx6m(Ø7mmx6m) |
| Protection class | | meets IP 67 |
| Safe overload | | 150% R.C |
| Ultimate overload | | 300% R.C |

**ORDERING INFORMATION**

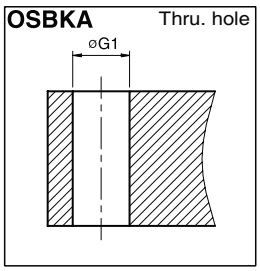
**OSBKA - 5T**

- OSBKA: MODEL (OSBKA, OSBKB, OSBKC)
- 5T: CAPACITY

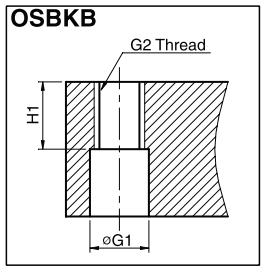
**WIRING INFORMATION**



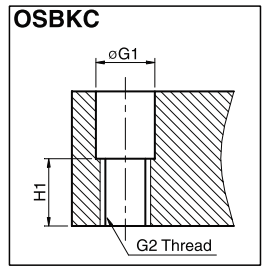

**OSBKA** Thru. hole




**OSBKB**




**OSBKC**




**Dimension-mm**

| Capacity | A | B | C | D | E | F | G1 | G2 | H | H1 | I | J | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200kg ~ 2t (1.961~19.61kN) | 131 | 12.7 | 76.2 | 25.4 | 16.7 | 32 | 13.5 | M12x1.75P | 32 | 16 | 57 | 38 | 0.8 |
| 3, 5t (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 (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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