

## Model DBWR Series

S- Beam Load Cell (500kg ~ 5t)

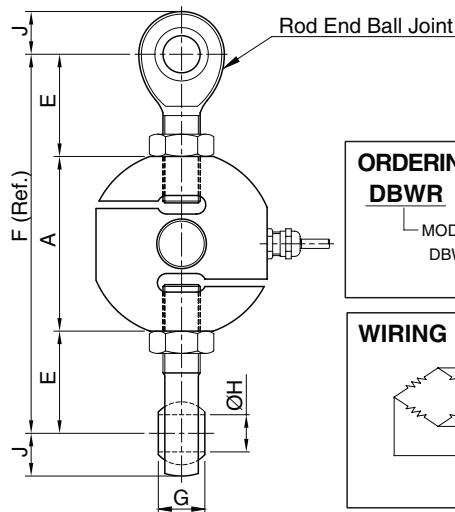
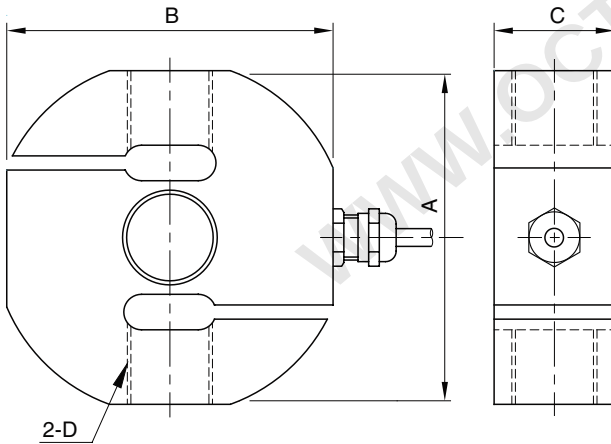


The DBWR S-beam load cell is designed for industrial scale conversion and a variety of process applications.

- 17-4PH stainless steel construction for high accuracy and corrosion resistance.
- Fully welded seal with stainless steel cover for hostile environment applications.

### SPECIFICATIONS

| MODEL                         | DBWR                                         |
|-------------------------------|----------------------------------------------|
| Rated capacity (R.C.)         | 500kg, 1, 2, 3, 5t                           |
| Rated output(R.O.)            | 2mV/V $\pm$ 0.3%                             |
| Non-linearity                 | $\leq$ 0.03% R.O.                            |
| Hysteresis                    | $\leq$ 0.03% 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     | 350 Ohms $\pm$ 3.5 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         | $\varnothing$ 5mmx3m(22AWG x 4Core Shielded) |
| Protection class              | meets IP 68                                  |
| Safe overload                 | 150% R.C                                     |
| Ultimate overload             | 300% R.C                                     |



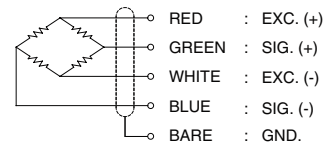
### ORDERING INFORMATION

**DBWR** - **2T**

MODEL  
DBWR

CAPACITY  
500kg, 1, 2, 3, 5 ton

### WIRING INFORMATION



### Dimension-mm

| Rated Capacity             | A   | B   | C  | D         | E  | F   | G  | H  | J  | Rod End Ball Joints | Weight (kg) |
|----------------------------|-----|-----|----|-----------|----|-----|----|----|----|---------------------|-------------|
| 500kg, 1t (4.903, 9.807kN) | 76  | 76  | 30 | M12x1.75P | 41 | 158 | 16 | 12 | 16 | SRDB 2              | 1.1         |
| 2t (19.61kN)               | 94  | 94  | 32 | M20x1.5P  | 55 | 204 | 25 | 20 | 23 | SRDB 3              | 1.6         |
| 3t (29.42kN)               | 114 | 114 | 34 | M24x2P    | 55 | 224 | 28 | 22 | 32 | SRDB 4              | 2.6         |
| 5t (49.03kN)               | 114 | 114 | 40 | M24x2P    | 55 | 224 | 28 | 22 | 32 | SRDB 4              | 3.1         |

\* Specifications are subject to change without notice

JAN, 2010

BONGSHIN LOADCELL CO., LTD.