

# BSDS

## ROCKER COLUMN LOAD CELL

NOW WITH EXCLUSIVE  
INTEGRATION HUB FOR  
POWER SUPPLY AND PROTECTION  
**WTX-BSDS**



# Digital technology, durability and reliability

# BSDS

## ROCKER COLUMN LOAD CELL

Capsule with design and impeccable finish, entirely constructed of stainless steel with two military-grade hermetic connectors, allowing multiple load cells to be connected in series.

### BLINDED CABLE

10-meter cable, shielded with a stainless steel mesh that protects it from the elements and completely eliminates the risk of rodent damage.



Access  
IP69K  
certificate

### PROTECTION DEGREE IP69K

Built in stainless steel with IP69K protection rating, offering maximum protection against water infiltration (high pressure or steam cleaning).

### MILITARY-GRADE CONNECTORS

Connectors made of stainless steel with threaded coupling, covered by a reinforced silicone capsule, with IP69K protection rating, resistant to dirt, chemicals, and submersion.



### DIRECT CONNECTION

Interconnection cable from the cell to the weighing indicator, 20, 50, or 10 meters long, covered by an external stainless steel mesh (special sizes available upon request).

### ELECTRICALLY ROBUST

Tested against electrical transients of 80kA, meaning it is extremely electrically robust and can even withstand lightning strikes without damage.



Access  
80kA  
certificate

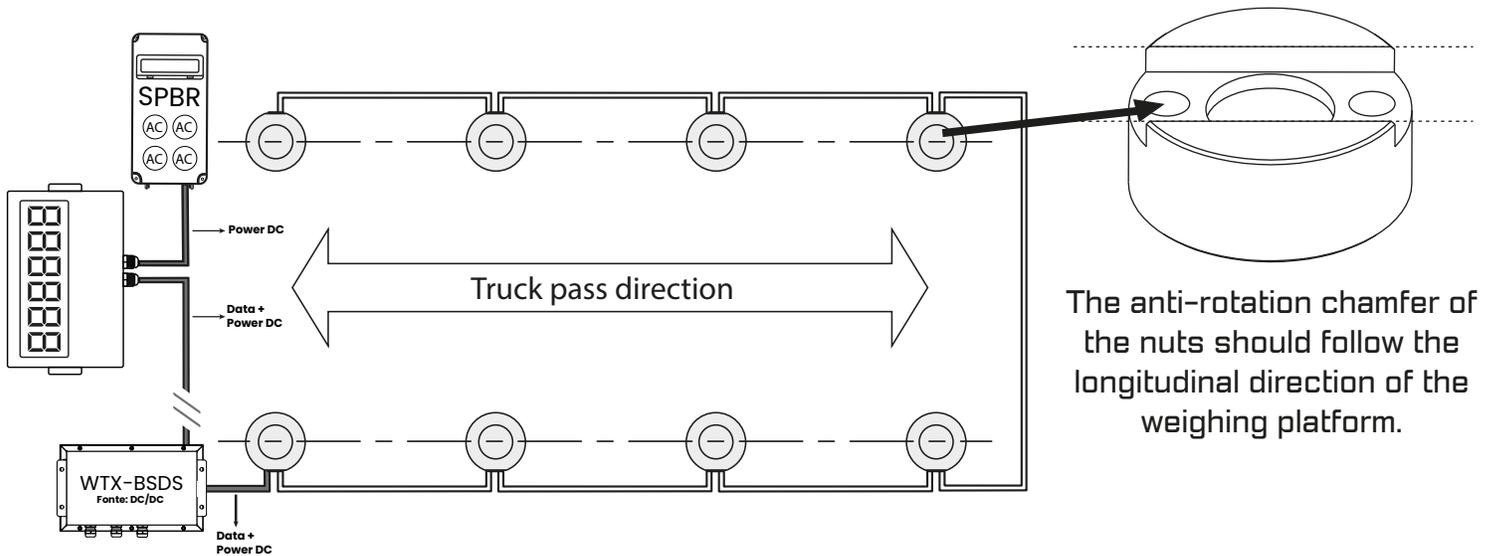


## TO MAKE ASSEMBLY EASIER, USE THE WTX-BSDS: Integration Hub, Power Supply, and Protection

IP67 stainless steel construction, with built-in DC-DC power supply for up to 16 BSDS load cells and equipotential bonding system to prevent damage caused by electrical surges.

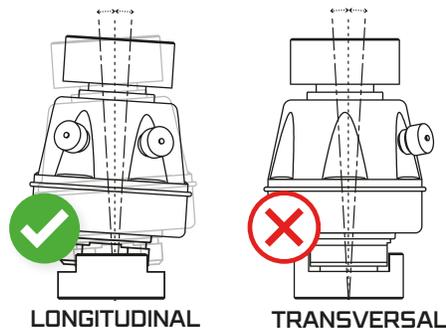
### UP TO 16 LOAD CELLS NO JUNCTION BOX

The two BSDS cell connectors enable the interconnection of up to 16 cells in series on the platform, with calibration and adjustments made digitally, simplifying system composition and optimizing maintenance operations.



### MOVEMENT

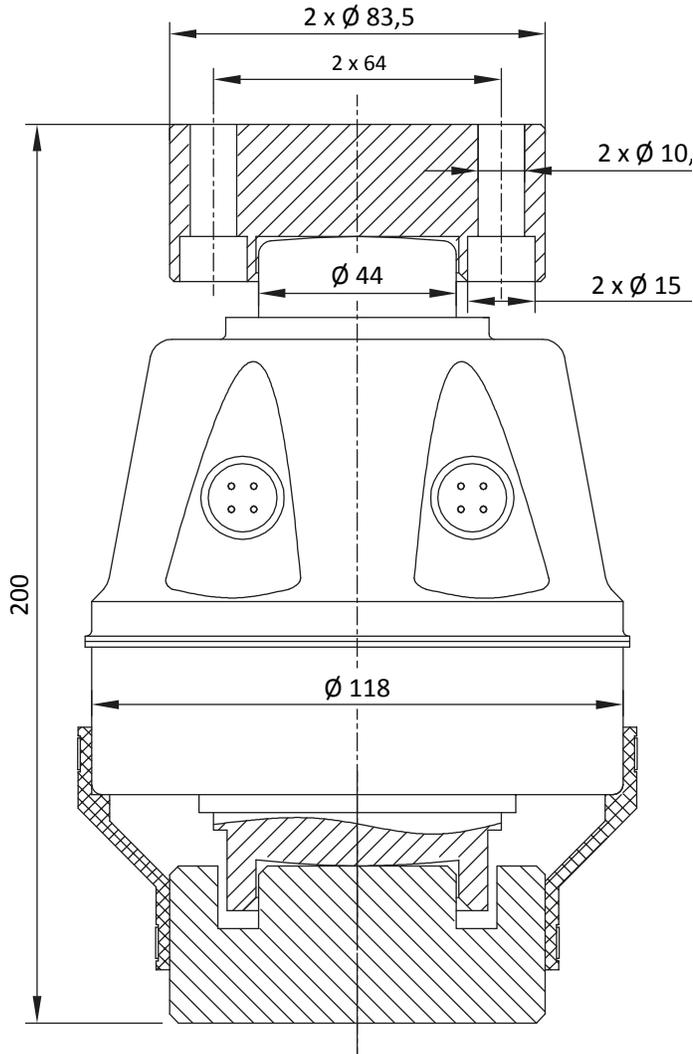
Nuts with anti-rotation slots make assembly safer and more resistant, as well as allowing tolerance for lateral movement along the longitudinal direction of the platform.



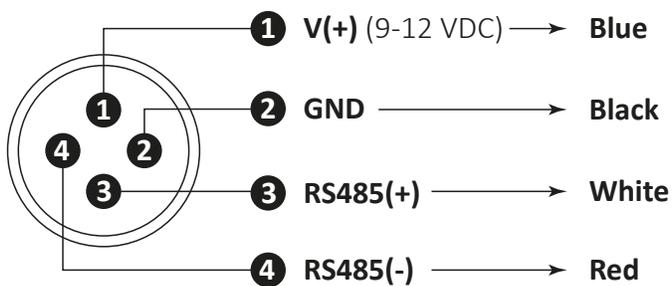
LONGITUDINAL

TRANSVERSAL

## OUTLINE DIMENSIONS (in millimeters)



## WIRING SCHEMATIC DIAGRAM



## TECHNICAL DATA

Capacity	40t e 50t
Total error	± 0,02% of nominal capacity
Creep (30 minutes)	± 0,02% of nominal capacity
Zero temperature compensation	± 0,02% of nominal capacity/10°C
Span temperature compensation	± 0,02% of nominal capacity/10°C
Insulation resistance	≥ 2000 MΩ
Nominal temperature range	-10°C up to +40°C
Operation temperature range	-30°C up to +70°C
Safe load limit	150% of nominal capacity
Breaking overload	300% of nominal capacity
Recommended excitation tension	9/12VDC
Maximum excitation voltage	20 VDC
Current consumption range	27-30 mA
Cable length	10m
Cell construction material	Stainless steel
Protection degree	IP69K

## COMMUNICATION PROTOCOL

Model	Protocol
BSDS	BERMAN-G2

## PART NUMBER

Products	Codes
BSDS/40t Digital Load Cell	502777
BSDS/50t Digital Load Cell	504574
7m BSDS cable assembled with 2 connectors (cell/cell)	504553
BSDS cable assembled with 20m and 1 connector (indicator/cell)	504554
BSDS cable assembled with 50m and 1 connector (indicator/cell)	504555
BSDS cable assembled with 100m and 1 connector (indicator/cell)	504556
BSDS cable - 100m roll (without connector)	505123
BSDS cable (sold separately - price per meter)	504551
BSDS load cell connector (sold separately)	504552
Plastic Cover for BSDS Load Cell Connector (sold separately)	505097
HDR-60-12 power supply (optional, not included)	504295
WTX-BSDS Integration, Power Supply, and Protection Hub (optional, not included)	506488
SPBR Single-phase (optional, not included)	504642
SPBR Biphasic (optional, not included)	504646

### FIND US

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### MORE INFO



[PRODUCT PAGE](#)