

DSB-D SERIES

Digital Double Ended Shear Beam Load Cell

CAS DSB-D loadcell is designed for use in vehicle scales and other heavy-capacity weighing application such as tank and hopper scales. It is a nickel plated alloy steel compression load cell with a digital output signal. Via the digital output, the user can communicate with each loadcell independently from the others and have advantages of a calibration, a corner compensation, fault finding and a load cell replacement of a system.

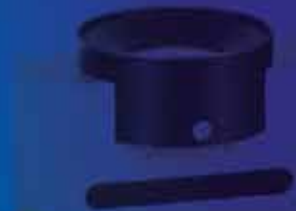
- Simple installation and effective maintenance
- High accuracy
- IP67 Protection class



Including accessory & option base

CAS

DBS-D SERIES



Features



High accuracy

- 5,000d and better performance than analog loadcell
- 300,000 counts of rated output

Environmental protection IP67

- Available even in the wettest and harshest environment

IP67

Strong digital output signal (RS-485)

- Resisting external noises
- Max. transmission distance : 1000m



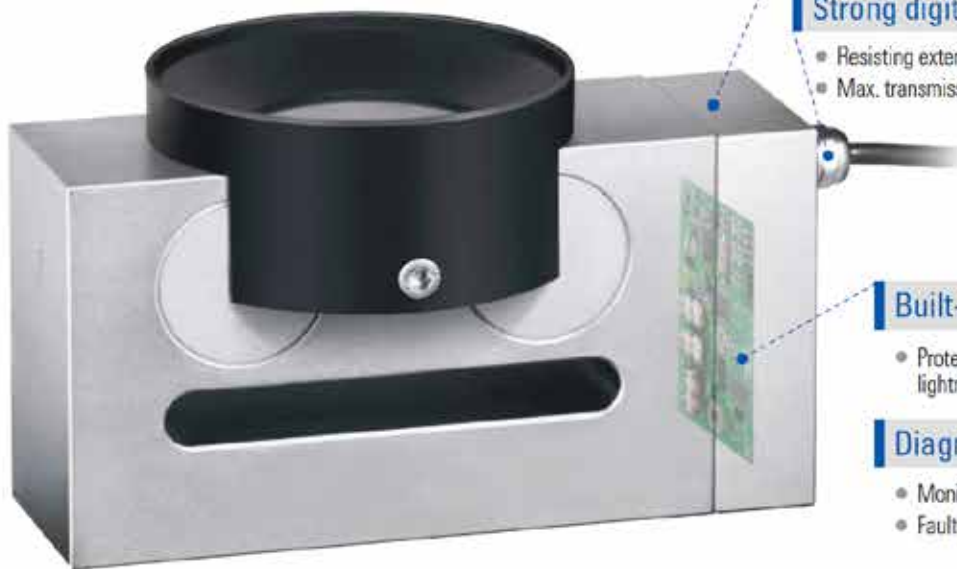
Built-in lightning protection

- Protecting internal components from lightning strikes



Diagnosis function

- Monitoring performance
- Fault findings



Simple installation & effective maintenance

- Diagnosing by independent communication with PC or Digital indicator (CI-200D & NT-580D)
- Shortening installation time and cost
- Convenient load cell replacement



DLC works (PC software)

- Diagnosis function
- Real time data analysis of digital loadcell
- Data capture function
- Digital 4 corner compensation
- Simple scale function - multi scale supported



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Application

CASE 1 - Truck Scale



CASE 2 - Tank/Hopper Scale



Digital indicator

CI-200D

Digital weighing indicator
 Diagnosis function
 RS-232 port : 1EA
 LED(CI-200D), LCD(CI-201D)
 Numeric keys
 Power : DC adaptor and rechargeable battery
 Application : Bench scale, Platform scale, Truck scale



NT-580D

Digital weighing controller
 Diagnosis function
 RS-232 Port : 2EA
 External relay In/output : 6 input/8 output
 Analog out(option) : I-out(4~20mA) or V-cut(0~10V)
 Various applications : Platform scale, Truck scale, Hopper scale and Packing scale etc

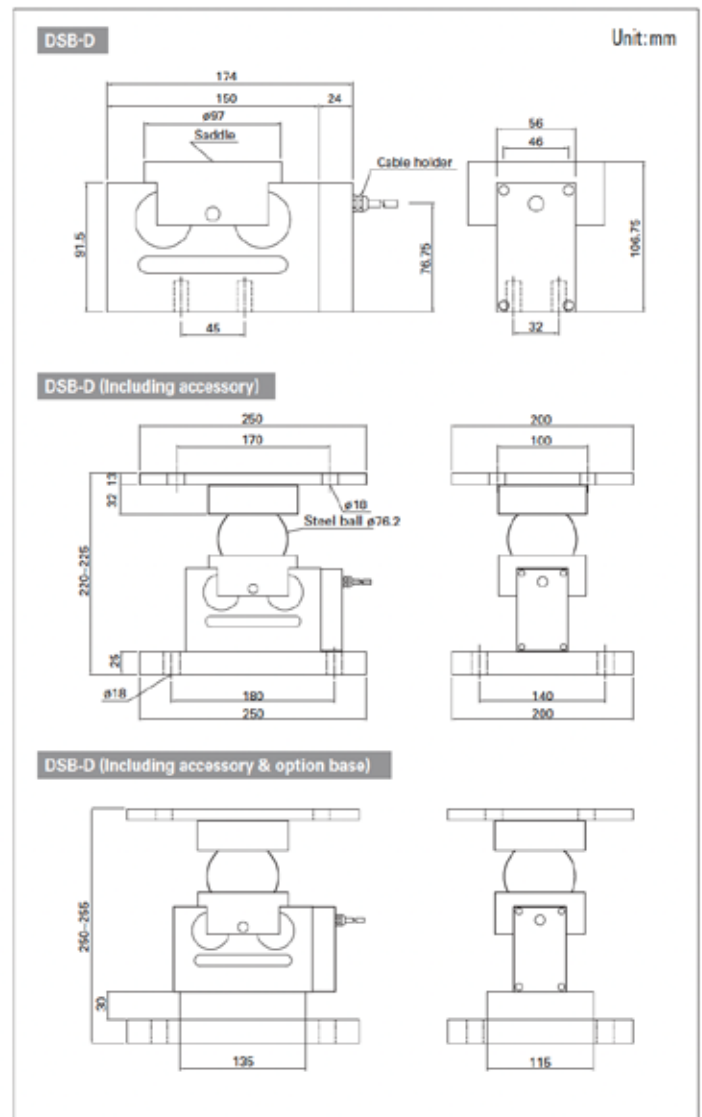


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SPECIFICATIONS

Model		DSB-D Series
Rated Capacity (R.L.) (t)		10, 20, 25, 30
Maximum number of verification intervals (n)		5,000
Rated Output (counts)		300,000
Zero Balance (counts)		±300
Non-Linearity (%R.O.)		≤0.015
Hysteresis (%R.O.)		≤0.015
Combined Error (%R.O.)		≤0.015
Repeatability (%R.O.)		≤0.01
Creep for 30min (%R.O.)		≤0.017
Temperature Effect on	Zero Value (%R.O./10°C)	0.014
	Output Value (%R.O./10°C)	0.011
Compensated Temperature Range (°C)		-10 ~ +40
Operating Temperature Range (°C)		-20 ~ +70
Excitation Voltage	Minimum (V)	6
	Recommended (V)	9
	Maximum (V)	24
Insulation Resistance (MΩ)		2,000
Safety Overload (%R.O.)		≤150
Material		Steel
Protection class		IP67
Communication		RS485 (2wire)
Communication Rate (kbit/sec)		19.2
Maximum Transmission Cable Length (m)		1,000
Warm-up Time from Cold Start (minutes)		15
Asynchronous Interface Baudrate (Baud)		9,600 ~ 115,200
Number of bus addresses		Max.32
Weight (G) with cable, approx.		4.9

DIMENSIONS



ACCESSORY FEATURES

- Suitable for tank and weighbridge
- Safe and compact design
- When using the option base, height of DSB-D is same with DSB-B (Analog loadcell)

CAS

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Specifications are subject to change for improvement without prior notice.