

# BR030SD

## Digital Compression Load Cell



### Applications



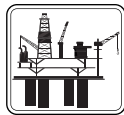
Truck Scales



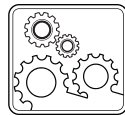
Tank, Bunker,  
Silo Weighing



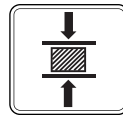
High Capacity  
Applications



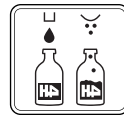
Special  
Weighing



Industrial  
Processes



Testing  
Machines



Packing & Filling  
Applications

### Key Features

- Digital data output
- 20~100 t Capacities
- EU OIML R60 approved
- Stainless steel
- Protection class: IP68

BR030SD state-of-the-art stainless steel digital load cell provides accurate and precise measurement with very high - one billion resolution with its advanced electronic design. This load cell has been specially developed for vehicle scales and high-capacity industrial weighing applications, as well as service advantages such as easy installation and fast maintenance.

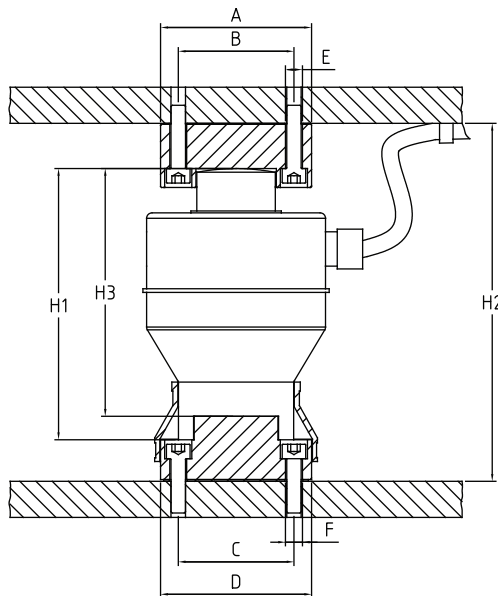
Thanks to digital load cell technology, individual load cell number is displayed on the weighing indicator, and any required adjustments can be made directly via indicator keys. In the event of any load cell malfunction in the system, the weighing is prevented. The digital load cell error code guidance enables easy and fast detection of the scale error.

Hermetically sealed, stainless-steel structure with an IP68 protection class makes BR030SD dependable even in the most demanding industrial environments. Moreover, the stainless steel upper and lower mounting parts offer the most effective load transfer to the load cell.

# Technical Specifications

Model		BR030SD	
Capacity ( $E_{max}$ )	t	20 / 30 / 50	
Accuracy class according to OIML R60		C3	C5
Max. number of load cell verification intervals ( $n_{LC}$ )		3000	5000
Ratio of minimum load cell verification interval $Y = E_{max} / (v_{min})$		10 000	
Ratio of minimum dead load output return $Z = E_{max} / (2 \cdot DR)$		5 000	
Internal resolution (Max.)	Count @ $E_{max}$	8 000 000	
Fraction $p_{LC}$		0.8	
Temperature effect on zero	% $E_{max}/10^{\circ}C$	$\leq 0.015$	
Temperature effect on sensitivity	% $E_{max}/10^{\circ}C$	$\leq 0.01$	
Combined error	% $E_{max}$	$\leq 0.017$	
Zero balance	% $E_{max}$	$\leq \pm 1$	
Creep error (30 minutes)	% $E_{max}$	$\leq 0.01$	
Safe load limit	% $E_{max}$	150	
Ultimate load	% $E_{max}$	300	
Communication		RS485 , Baykon BDLC protocol	
Excitation, recommended	V (DC)	12	
Excitation voltage range	V (DC)	10 - 16	
Current consumption (at 12 V)	mA	23	
Compensated temperature range	$^{\circ}C$	- 10 ... + 40	
Operating temperature range	$^{\circ}C$	- 30 ... + 70	
Material		Stainless steel	
Protection class		IP68	
Cable		Length: 16m, $\varnothing$ 8.8 mm, stainless steel braided sleeving	

## Dimensions (mm)



Capacity (t)	20 / 30 / 50
(mm)	
A	$\varnothing 83.5$
B	64
C	64
D	$\varnothing 83.5$
E	$\varnothing 9.4$
F	$\varnothing 9.4$
H1	150
H2	200
H3	140

## Color Codes

