BOSCHE WÄGETECHNIK

Digital load cell H33A-D



Features

- Material: Aluminium
- Nominal load: 10, 20, 40, 60, 100 kg
- Easy communication via RS-485 half-duplex
- Integrated 24 bit A/D converter in the load cell for precise weight values
- Construction: Measuring element is potted, protection class: IP65
- Compensated corner load error
- Max. Platform size: 250x400 mm
- Fast integration into existing networks
- Particularly robust for tough continuous operation in industrial environments

Area of application

- Store Fitting
- Self-Service Shelves
- Inventory Applications
- Integrable into shelves, racks, or industrial vending machines
- Special machine engineering







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Digital load cell H33A-D

The H33A-D is a digital load cell made of aluminum. An integrated 24-bit signal amplifier in the cell directly converts incoming analog measurement values (mV/V) into a digital signal and outputs it. This saves costs for specialized external evaluation electronics for conversion and simplifies integration.

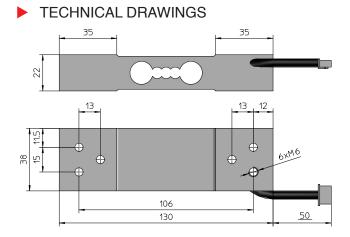
Communication is easily achieved through an RS-485 half-duplex interface. Each load cell can communicate separately and independently with the user through the

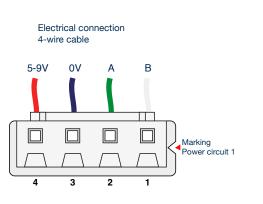
digital output. The digital load cell H33A-D also provides highly precise and reproducible measurement results even during long-term use. Thanks to its IP65 protection rating, the aluminum measuring body can be used in humid or dusty environments.

The connecting cable can be customized according to customer requirements (cable length and connectors) !!!

TECHNICAL DETAILS

Accuracy class		G3
Maximum capacity (E _{max})	kg	10, 20, 40, 60, 100
Maximum number of intervals (n _{LC})		3000
Measurement accuracy	%	± 0,02%
Data transfer		RS-485 2-wire half-duplex serial interface
Limit load (E _L) Breaking load (E _d)	% von Emax	150 200
Recommended supply voltage (U _{ref})	V	5 - 9
Inrush current	mA	45
Power input	mA	20 – 50
Max. Measuring resolution	Teile	30.000
Adjustable cut-off frequency of the digital filter	Hz	0,25 – 5
Baud rate	bps	38.400
Number of bus users		128
Length of cable		Standard 50 mm cable with JST XH connector Customized, various connectors available
Nominal temperature range (B _T) Operating temperature range		-10 + 40 °C 0 + 50 °C
Protection class (DIN 40.050 / EN 60529)		IP 65
Material		Aluminium





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