

## 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



## 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	%	$\pm 0,02\%$
Data transfer		RS-485 2-wire half-duplex serial interface
Limit load ( $E_L$ )	% von $E_{max}$	150
Breaking load ( $E_B$ )		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 ( $B_T$ )		-10 ..... + 40 °C
Operating temperature range		0 ..... + 50 °C
Protection class (DIN 40.050 / EN 60529)		IP 65
Material		Aluminium

### TECHNICAL DRAWINGS

