

## Single Point Load Cell AQ with a Rated Load of 5 ... 35 kg



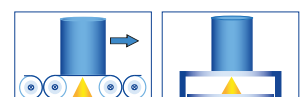
Data sheet

### Performance Features

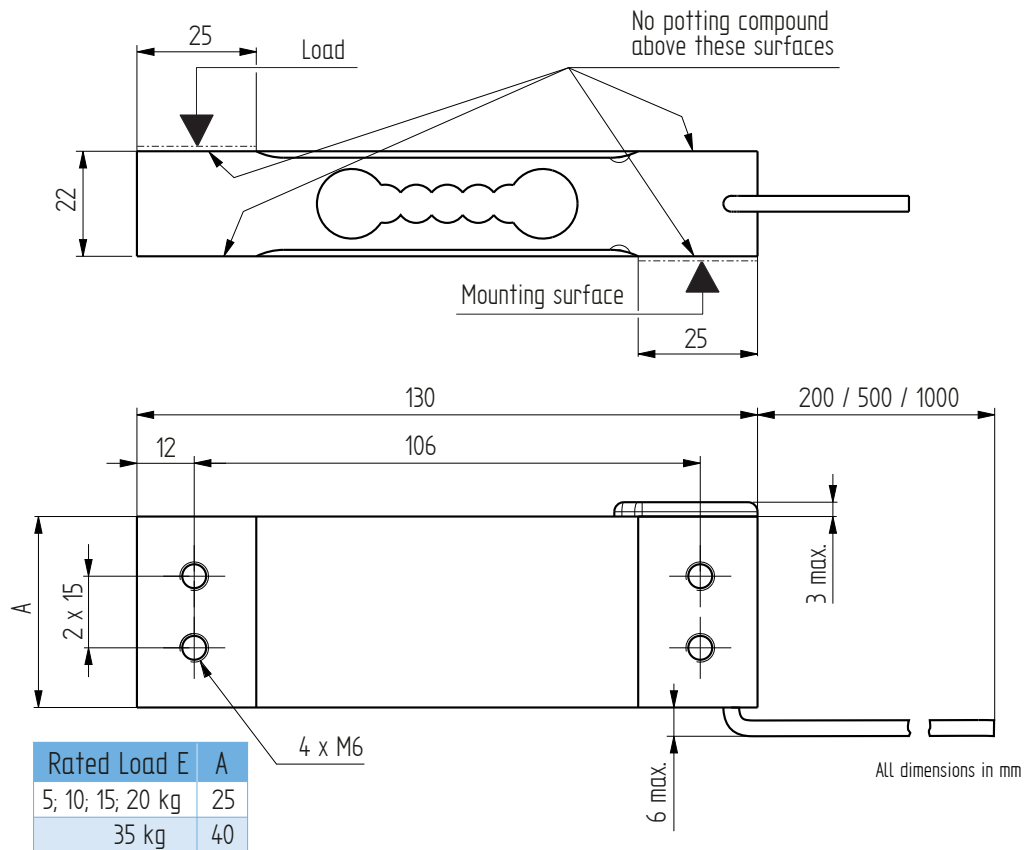
- Aluminum single point load cell
- 3000d OIML R60 and 5000d NETP approved
- Level of protection: IP65
- Designed for platforms of maximum dimensions 350 mm x 350 mm (off-center load compensated)
- Extremely compact construction
- ATEX 2014/34/EU version for hazardous area (option)

### Application

- Food industry
- Coal and steel industry
- Chemical/pharmaceutical industry
- Waste management/recycling
- Packaging technology



## Dimensions in mm



Article-No.	Version	Rated Load [kg]
106091	C3 10e	5
106090	C3 10e	10
106089	C3 10e	15
106088	C3 10e	20
106086	C3 10e	35

## Connection Assignment

### Electrical Connection

Function	Wire Color	
Excitation (+)	Red	●
Signal (+)	Black	●
Signal (-)	Blue	●
Excitation (-)	White	○

## Technical Data

Type	AQ	
Version		C3 10e
Rated load <b>E</b>	kg	5; 10; 15; 20; 35
Maximum load for approved weighing <b>E<sub>max</sub></b>	kg	5; 10; 15; 20; 35
Accuracy class OIML R60		C3
Maximum numbers of load cell intervals <b>n<sub>max</sub></b>	d OIML	3000
Minimum verification interval <b>v<sub>min</sub></b>	kg	E/10000
Creep division factor $Z = E_{max}/2 \times DR$		3000
Combined error	% E	±0.017
Temperature coefficient of zero signal	% E/°C	±0.0014
Temperature coefficient of characteristic value	% E/°C	±0.0014
Load creep <b>d<sub>cr, F</sub></b> in 30 min.	% E	±0.024
Zero balance	% E	±10
Rated output at E <b>C<sub>nom</sub></b>	mV/V	2 ±10 %
Rated range of excitation voltage <b>B<sub>U, nom</sub></b>	V	1 ... 15
Input resistance <b>R<sub>e</sub></b>	Ω	410 ±20
Output resistance <b>R<sub>a</sub></b>	Ω	350 ±5
Insulation resistance <b>R<sub>is</sub></b>	MΩ/50V	1000
Electrical connection		Cable, PVC, 0.5 m; 35 kg = 1 m
Rated temperature range <b>B<sub>T, nom</sub></b>	°C	-10 ... 40
Operating temperature range <b>B<sub>T, G</sub></b>	°C	-20 ... 60
Limit load <b>E<sub>lim</sub></b>	% E <sub>max</sub>	150
Breaking load <b>E<sub>b</sub></b>	% E <sub>max</sub>	200
Tightening torque	Nm	15
Maximum platform dimension	mm	350 x 350
Level of protection		IP65
Material		Aluminum
Weight		0.16; 35 kg = 0.26

## Options

Article-No.	Description
111735	Protective coating
107798	ATEX 2014/34/EU, IECEx: ex II 1 G/D, Ex ia IIC T6 Ga, Ex ia IIIC T80 °C Da, IP6X, -20 °C < Ta < +60 °C (zones gaz 0/1/2, dust 20/21/22)
115049	ATEX 2014/34/EU, IECEx: ex II 1 D, Ex ta IIIC T125 °C Da, IP6X, -20 °C < Ta < +60 °C (zones dust 20/21/22)
115048	ATEX 2014/34/EU, IECEx: ex II 3 G, Ex nA IIC T6 Gc, -20 °C < Ta < +60 °C (zone gaz 2)

## Accessories

### Electrical Connection

Article-No.	Description
10323	Male cable connector KS6 (6-pin, Series 581) incl. mounting
10320	Male cable connector KSSH15 (15-pin) incl. mounting
43418	Input connector ZA9612FS (ALMEMO) incl. sensor mounting and connector calibration
49205	Input connector ZKD712FS (ALMEMO 202) incl. sensor mounting and connector calibration

## Accessories (continued)

### Weighing Electronics

ALCJB-A	CPJ/CPJ2S	IPE50 Panel
 The image shows a white plastic terminal block with a central grey section. It has two rows of screw terminals on the front and two rows of green PCB pins on the back. The top cover is partially open, revealing the internal wiring.	 The image shows a green plastic terminal block with a vertical orientation. It has a single row of screw terminals on the front and a single row of green PCB pins on the back. The top cover is partially open.	 The image shows a black and blue industrial panel. It features a red LED display showing '30.000'. Below the display are several buttons and a small keypad. The panel is mounted on a blue base.

Further suitable accessories you can find on our homepage under:

[https://www.lorenz-messtechnik.de/english/products/lc\\_weighing-electronics.php](https://www.lorenz-messtechnik.de/english/products/lc_weighing-electronics.php)