

LCB150 30kg

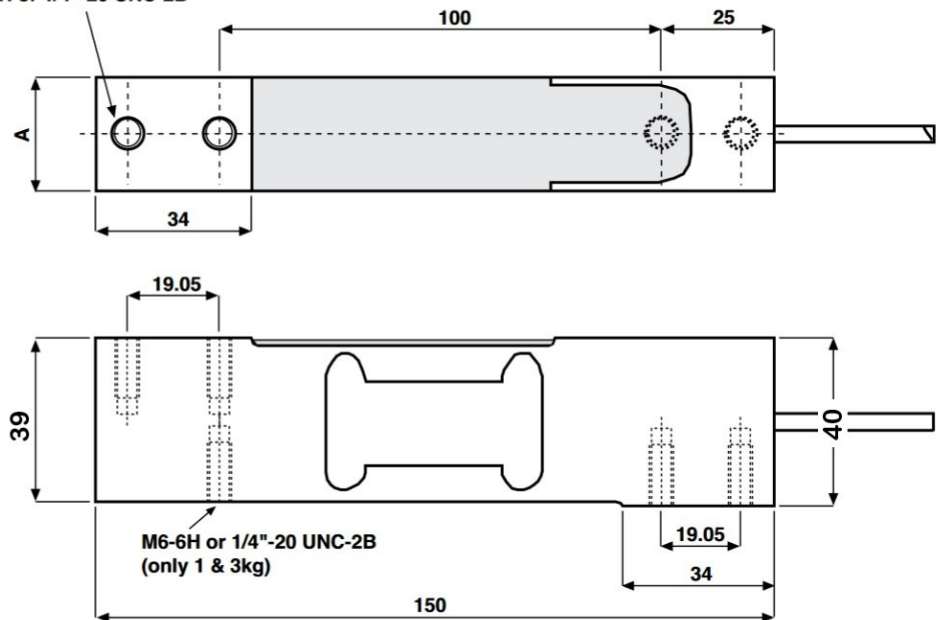


Description

Dimensions

Capacity, kg	A
1-30	20
50-200	25.4

4 Mounting holes
 M6-6H or 1/4"-20 UNC-2B



Technical Data

Force sensor

Type	load cell
Force direction	Compression
Rated force F _x	30 kg
Material	Aluminium alloy
Breaking force	300 %F _s

Electrical Data

Input resistance	415 Ohm
Tolerance input resistance	15 Ohm
Output resistance	350 Ohm
Tolerance output resistance	3.5 Ohm
Insulation resistance	2 GOhm
Rated range of excitation voltage f	2.5 ... 5 V
Operating range of excitation voltage f	1 ... 10 V
Zero signal	10 %F _s
Rated output	2 mV/V
relative error of characteristic value	0.1 mV/V

Precision data

Accuracy class	0,02%
Temperature effect on zero signal	0.004 %F _s / 10°C
Temperature effect on characteristic value	0.01 %R _d / 10°C
Relative creep	0.017 %R _d

Connection Data

Connection type	6 conductor open
Cable length	1 m

Environmental data

Rated temperature range f	-10 ... 40 °C
Operating temperature range f	-30 ... 70 °C
Storage temperature range f	-30 ... 70 °C
Environmental protection	IP66

Pin Configuration

Symbol	Description	Wire colour
+Us	positive bridge supply	green
-Us	negative bridge supply	black
+Ud	positive bridge output	red
-Ud	negative bridge output	white
+Uf	positive sense lead	blue
-Uf	negative sense lead	brown

Shield - transparent.

accessories

Description Description	
	GSV-15KL4 Junction box with measuring amplifier for sensors with strain gauges. Analogue output ± 10 Volt and 4...20 mA configurable.
	KL4 CG clamping box for parallel connection of 4 sensors, dimensions: 175mm x 105mm x 60mm, 4xPG9, 7-pole
	KL4 M12 clamping box for parallel connection of 4 sensors, dimensions: 175mm x 105mm x 60mm, 4xM12 female, 1xM12 male
	GSV-1H Measuring amplifier in top-hat rail housing for sensors with strain gauges. Analogue output -10V...+10V, limiting frequency 250Hz, 4 input sensitivities from 2.0mV/V.
	GSV-6K Analogue measuring amplifier in plug housing for sensors with strain gauges. Analogue output configurable, TEDS, sampling frequency 1Hz ... 25kHz, input sensitivity configurable 0.1mV/V ... 8mV/V