



Short Description



- Aluminum-alloy IP65 digital single point load cell
- Suitable for retail applications such as unmanned stores or vending machines, Intelligent shelves and unattended supermarkets & storage management
- RS422 digital output signal with self-correction and self-compensation
- Daisy-chain wiring between A/D converters in systems with multiple load cells
- Maximum Platform size: 400 mm × 250mm

Available Models

Capacity	Accuracy	Full Article Description
10kg	C3	LC D 14-10kg-0.18M
20kg	C3	LC D 14-20kg-0.18M
30kg	C3	LC D 14-30kg-0.18M
40kg	C3	LC D 14-40kg-0.18M
50kg	C3	LC D 14-50kg-0.18M

Technical Specifications LCD14-xxkg-0.18M

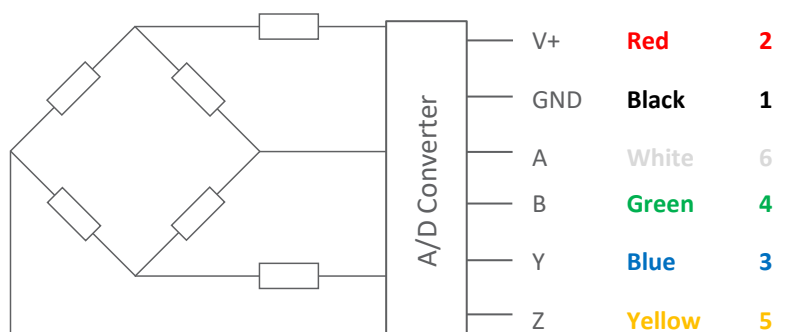
Accuracy Class		C3				
Maximum Capacity (E_{max})	kg	10	20	30	40	50
Recommended Single Item Weight	g	20	40	60	80	100
Output Minimum Division Value	g	1				
Display Resolution	g	1				
Temperature Effect on Zero (ZTC)	%FS/10°C	$\leq \pm 0.020$				
Temperature Effect on Span (STC)	%FS/10°C	$\leq \pm 0.017$				
Creep / Zero Return	%FS/30 min.	$\leq \pm 0.017$				
Safe Overload	%FS	120				
Ultimate Overload	%FS	150				
A/D Conversion Resolution	Bits	24				
Signal Conversion Frequency	Hz	10				
Response Frequency	ms	≤ 100				
Baud Rate	Baud	115200				
Interface		RS422 (Six wires – Full Duplex)				
Excitation, Recommended Voltage	V	12 ± 0.5				
Excitation, Maximum Voltage	V	15				
Rated Output Current	mA	50				
Compensated Temperature	°C	$-10 \sim +40$				
Operating Temperature	°C	$-20 \sim +40$				
Storage Temperature	°C	$-40 \sim +70$				
Eccentric Loading Error	%FS/100mm	0.02				
Element Material		Aluminium				
Load Cell Weight (incl. A/D converter)	kg	0.25				
Ingress Protection (acc. to EN 60529)		IP65				
Recommended Torque on Fixation Bolts	Nm	< 30kg: 6 >30kg: 10				

Wiring

Features:

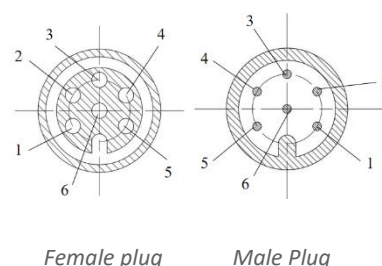
Cable type: 2 cables; 6 conductor twisted pair cable
 Cable diameter: $\varnothing 5.5\text{mm}$
 Cable length: 0.18m (can be customized on request)
 optional extension cables available
 Cable jacket: PVC
 Shield not connected to element

6-Wire Connection Diagram

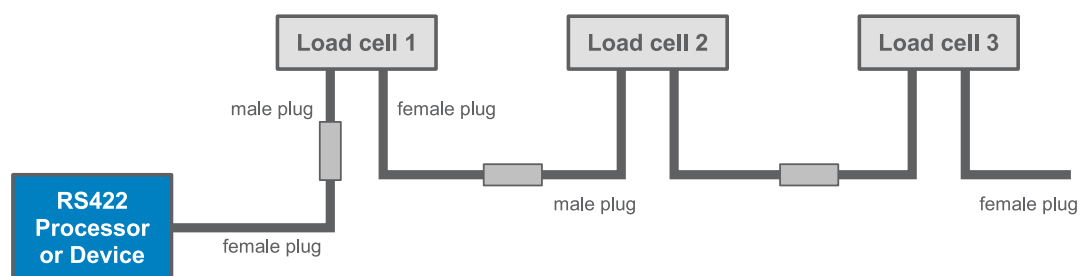


Connector:

X6BM male & X6BF female 6-pin

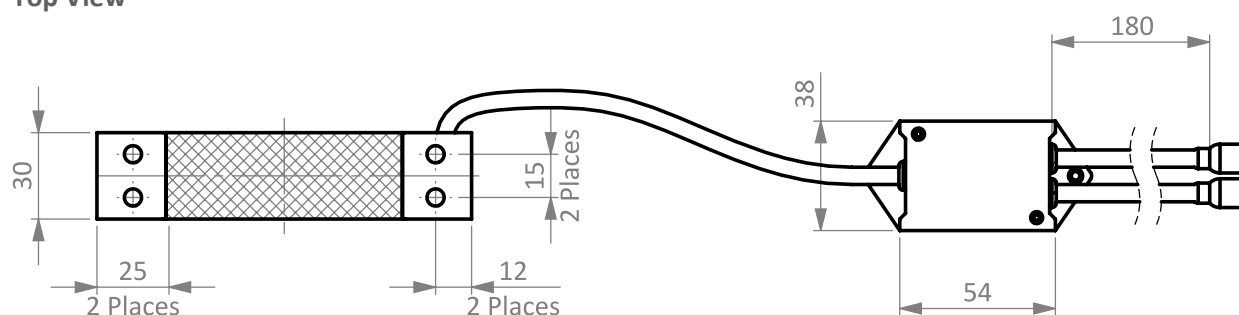


Wiring of Multiple Units

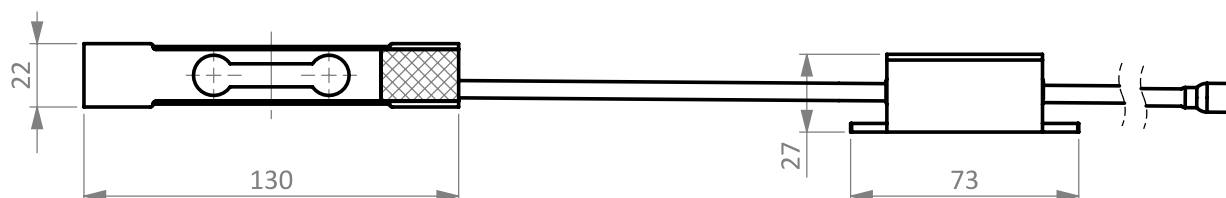


Dimensions in mm

Top View



Side View



Isometric View

