



Short Description



- Aluminum-alloy IP65 digital single point load cell
- White powder coated
- Aluminium cross platform with integrated overload protection
- Maximum Platform size: 400 mm x 250mm
- Suitable for retail applications such as unmanned stores or vending machines, Intelligent shelves and unattended 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

Available Models

Capacity	Accuracy	Full Article Description
10kg	C3	ZDY-Z01-10kg-04
20kg	C3	ZDY-Z01-20kg-04
30kg	C3	ZDY-Z01-30kg-04
40kg	C3	ZDY-Z01-40kg-04
50kg	C3	ZDY-Z01-50kg-04

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

Technical Specifications ZDY-Z01

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	1/2/5 (Optional)				
Temperature Effect on Zero (ZTC)	%FS/10°C	≤± 0.020				
Temperature Effect on Span (STC)	%FS/10°C	≤± 0.017				
Creep / Zero Return	%FS/30 min.	≤± 0.017				
Safe Overload	%FS	120				
Ultimate Overload	%FS	150				
A/D Conversion Resolution	Bits	24				
Signal Conversion Frequency	Hz	100				
Response Frequency	ms	10				
Baud Rate	Baud	115200				
Interface		RS422 (Six wires – Full Duplex)				
Output Format		ASCII				
Excitation, Recommended Voltage	V	12 ± 0.5				
Excitation, Maximum Voltage	V	15				
Rated Output Current	mA	50				
Compensated Temperature	°C	-10 ~ +40				
Operating Temperature	°C	-10 ~ +40				
Storage Temperature	°C	-20 ~ +70				
Element Material		Aluminium				
Ingress Protection (acc. to EN 60529)		IP65				
Recommended Torque on Fixation Bolts	Nm	< 30kg: 6 >30kg: 10				

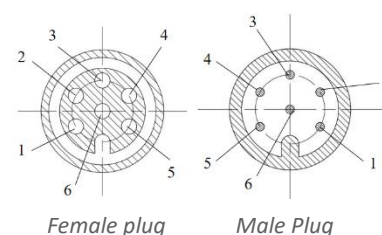
Wiring

Features:

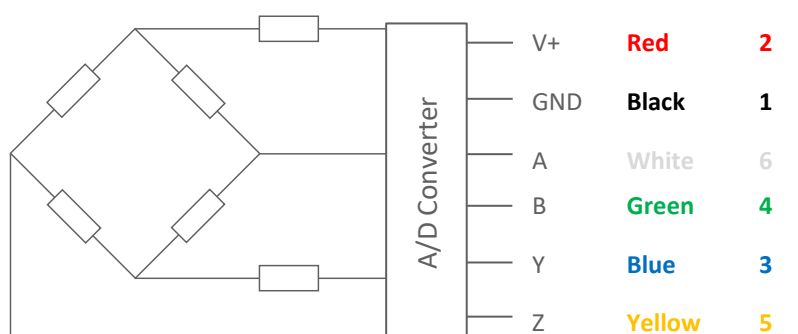
Cable type: 2 cables; Shielded, 6 conductor cable
 Cable diameter: Ø 5.5mm
 Cable length: 0.18m (can be customized)
 Cable jacket: PVC
 Shield not connected to element

Connector:

X6BM male & X6BF female 6-pin

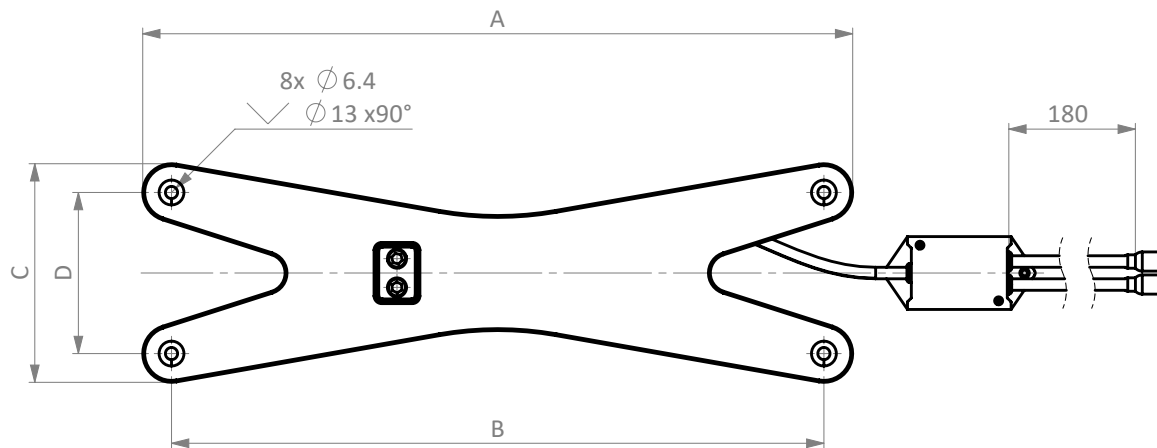


6-Wire Connection Diagram

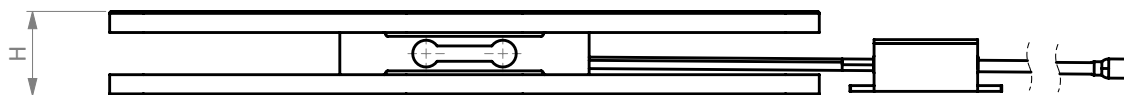


Dimensions in mm

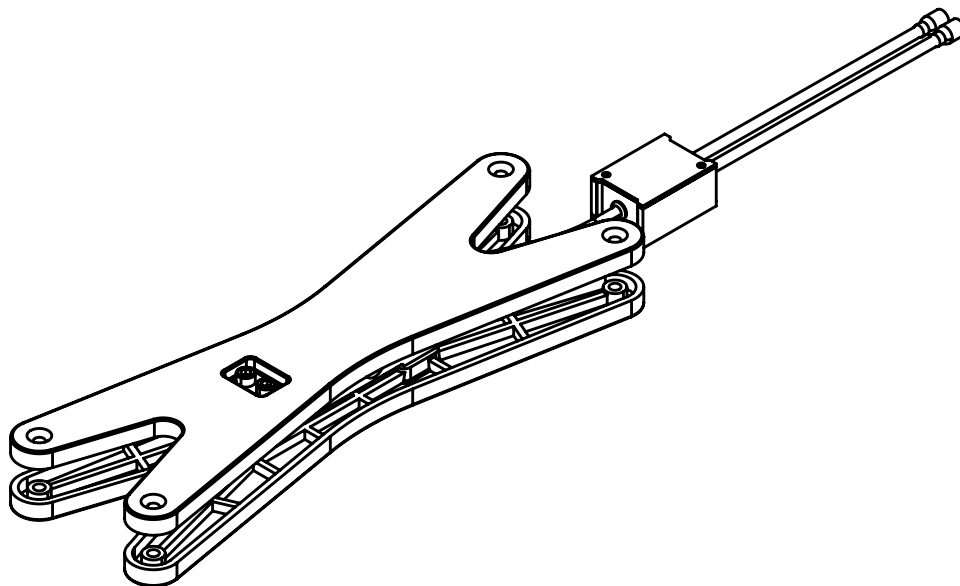
Top View



Side View



Isometric View



Dimension Cross Model	A	B	C	D	H
Z01	370	340	114	84	44