



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 | 10 | | | | |
| Response Frequency | ms | 100 | | | | |
| Baud Rate | Baud | 115200 | | | | |
| Interface | | RS422 (Six wires – Full Duplex) | | | | |
| Output Format | | ASCII | | | | |
| Internal Storage | | Flash 32K, EEROM 128 bytes | | | | |
| 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 | | |

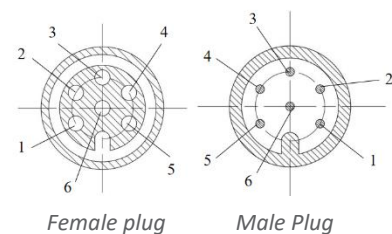
Wiring

Features:

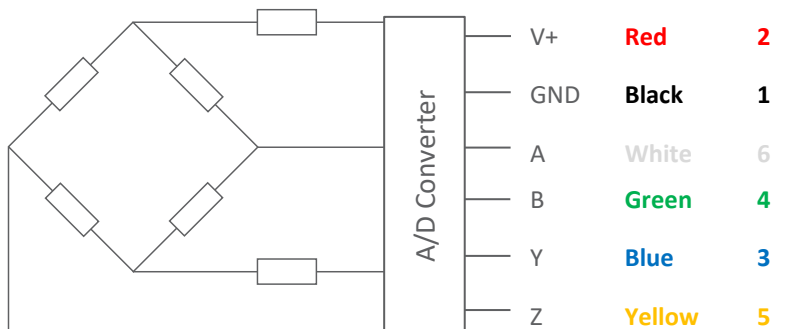
Cable type: 2 cables; Shielded, 6 conductor cable
 Cable diameter: Ø 5.5mm
 Cable length: 0.18m (can be customized)
 Cable jacket: PVC
 Shield not connected to element

Connector:

X6BM male & X6BF female 6-pin



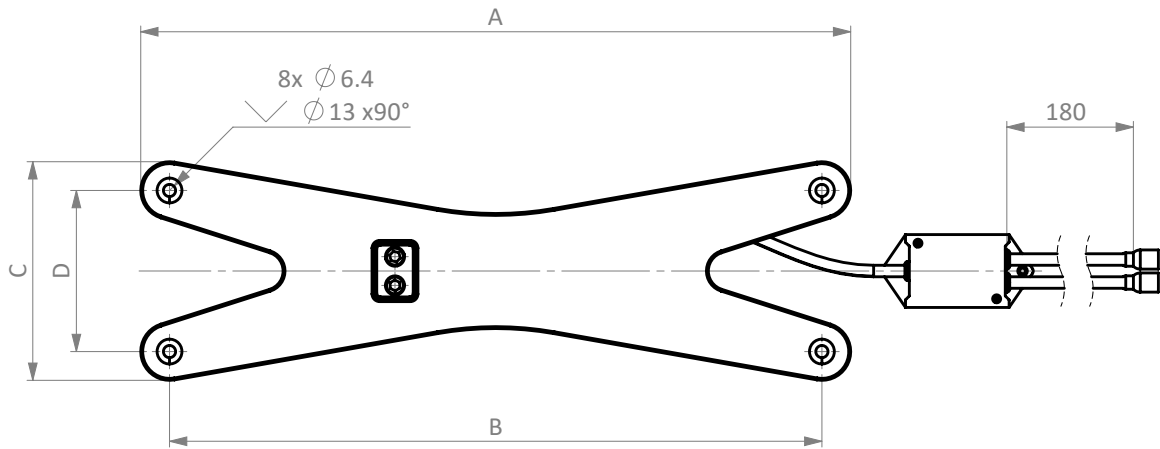
6-Wire Connection Diagram



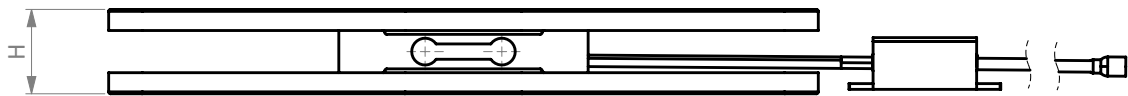
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Dimensions in mm

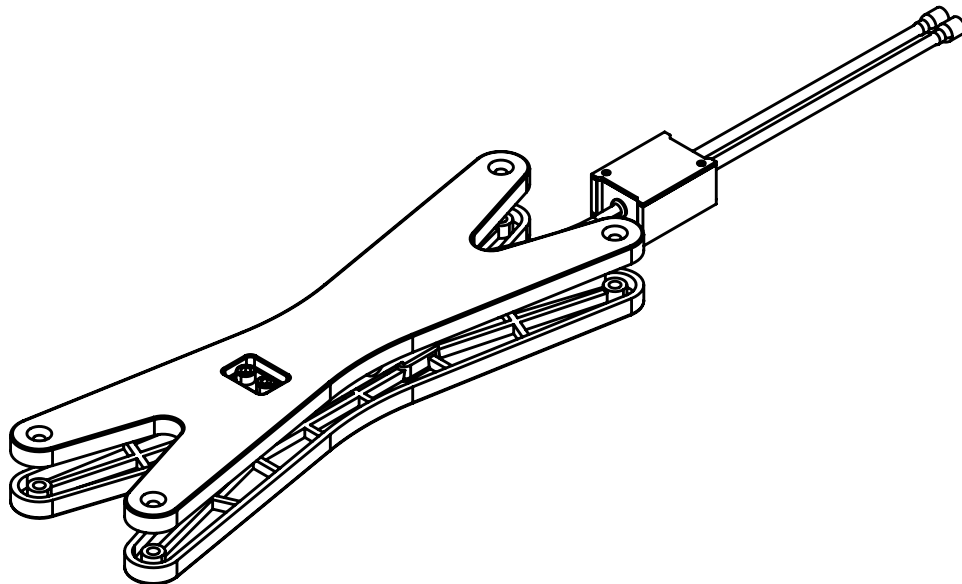
Top View



Side View



Isometric View



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