# CED-32 CANbus inline adapter



## product description

The CED-32 inline adapter converts analogue load cell output to a digital CANbus signal, supporting CANopen/J1939 protocols and software-enabled termination. It features M12 connectors (5-pin male for CAN output, 4-pin female for mV/V input). Housed in a compact, robust IP67 stainless-steel enclosure, it withstands harsh industrial environments.

Setup is straightforward and can be performed with a terminal emulation program or the Flintec FDC application, available from flintec.com.

## applications

Ideal for applications that require CAN; onboard networking in the automotive industry, heavy-duty vehicles and embedded controls in industrial automation.

## options

Flintec offers several CANbus solutions for analogue load cells:

CED-32 - Single-channel CANopen/J1939 conversion

CED-33 - Daisy-chains multiple load cells to a CANopen/J1939 network (see datasheet)

Embedded - CANbus circuit within select load cells (contact us for details)

## key features

Analogue mV/V to digital CAN

CANopen or J1939 protocols

5V excitation

±3 mV/V range

24-bit ADC resolution

M12 connectors

Stainless-steel construction

IP67 environmental protection

Software-enabled termination resistor

Unlocks CAN advantages for load cell signal processing

Works with Flintec FDC application for analysis & configuration.

CE   RoHS compliant   CiA   IP67

flintec

## specifications

| Board model | - | CED-32 |
|---|---|---|
| Enclosure dimensions | mm | 21 dia. x 105 |
| Material type | - | Stainless Steel 17-4PH |
| Connector types | - | 4-pin Female M12 (mV/V) (in)<br>5-pin Male M12 (CAN) (out) |
| Protection according EN 60 529 | - | IP67 |
| Supply voltage | VDC | 9 - 36 |
| Operating temperature | °C | -20 to +70 |
| Storage temperature | °C | -40 to +125 |
| Load cell connection detect | - | Yes |
| CANbus termination select over CAN | - | Yes |
| Filter mode | - | Selectable IIR & averaging |
| Load cell excitation | VDC | 5 |
| Load cell impedance (minimum) | Ω | 87.5 (e.g. 1x350, 4x350, 4x1,100) |
| Load cell impedance (maximum) | Ω | 1,100 |
| Protocol | - | CANopen |
| Baud rate (CANopen) | Bits/s | 10k, 20k, 50k, 125k, 250k, **500k**, 800k, 1000k |
| Update rates (CANopen) | kHz | 0.005 to 2.5 |
| Protocol | - | J1939 |
| Baud rate (J1939) | Bits/s | 250k |
| Update rates (J1939) | kHz | 0.005 to 1.6 |
| Designed to meet | - | Reg 10, ISO 13766:2018, ISO 14982:1998 |
| Product weight | g | 120 (approx) |

The CED-32 includes components designed to meet standards such as Regulation 10, ISO 13766:2018, and ISO 14982:1998. However, the unit itself is not currently certified for these standards. Customers requiring compliance must confirm suitability with their regulatory requirements.
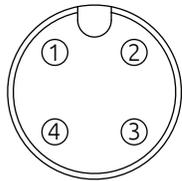
# product dimensions (mm)

A-A (1:1)

Ø19.30 ±0.10

4-pin female connector

35

A
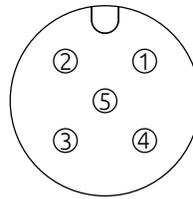
A

78

105

R10.5

5-pin male connector

8.83

9.25
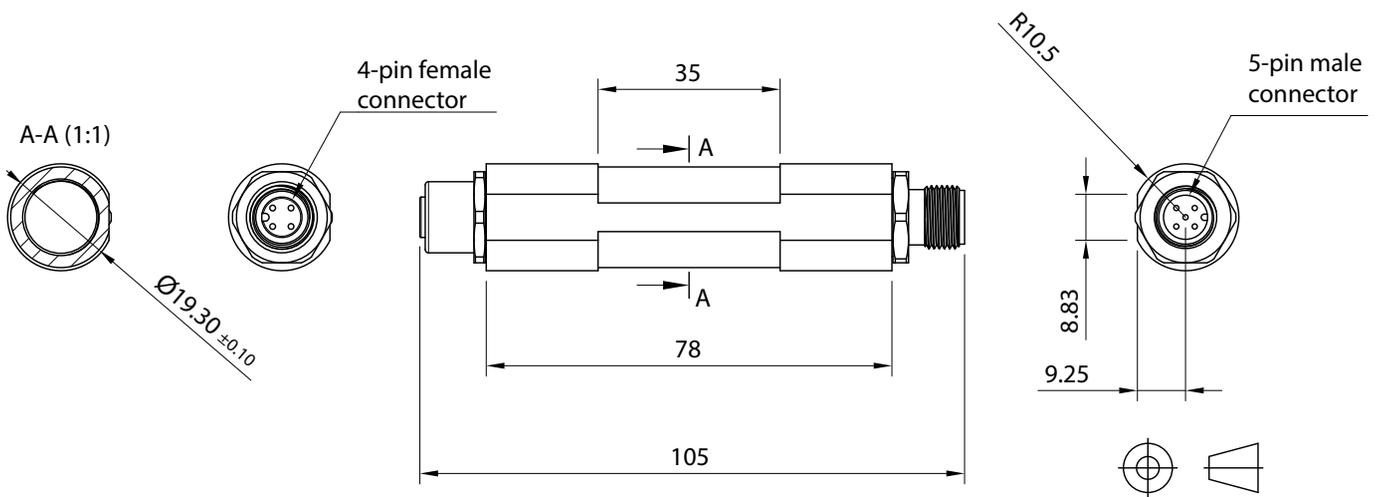
Note: To prevent movement or damage, we recommend CED-32 is secured and not supported only by cables. Suitable P-clips and Brackets are widely available.

# wiring

4-pin Female M12
mV/V

① ②
④ ③

5-pin Male M12
CAN

② ①
⑤
③ ④

| Pin number | 4-pin Female | 5-pin Male |
|------------|--------------|------------|
| 1 | + Excitation | - |
| 2 | + Signal | +VDC |
| 3 | - Excitation | GND |
| 4 | - Signal | CAN High |
| 5 | - | CAN Low |

Specifications and dimensions are subject to change without notice.