CED-33 CANbus T-adapter

product description

The CED-33 T-adapter connects analogue load cells to a CANbus network, enabling daisy-chaining. It supports CANopen/J1939 protocols with software-enabled termination and features M12 connectors (5-pin male/female for CAN, 4-pin female for mV/V). 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-33 - Daisy-chains multiple load cells to a CANopen/J1939 network

CED-32 - Single-channel CANopen/J1939 conversion (see datasheet)

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

key features

Analogue mV/V to digital CAN

Supports daisy-chaining

CANopen or J1939 protocol

5V excitation

±3 mV/V range

24-bit ADC resolution

M12 connectors

Stainless-steel construction

Environmental protection to IP67

Software-enabled termination resistor

Status LED for diagnostics

Works with Flintec FDC application for analysis & configuration.

specifications

|		
Board model	-	CED-33
Enclosure dimensions	mm	97 x 53 x 20
Material type	-	Stainless Steel 304
Connector types	-	5-pin Male M12 (CAN) 4-pin Female M12 (mV/V) 5-pin Female M12 (CAN)
Protection according EN 60 529	-	IP67
Supply voltage	VDC	9 - 36
Operating temperature	°C	-20 to +70
Storage temperature	°C	-40 to +125
Status LED	-	Yes
Load cell connection detect	-	Yes
CANbus termination select over CAN	-	Yes
Filter mode	-	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	260 (approx)

The CED-33 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.
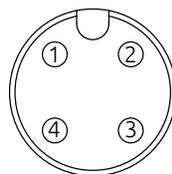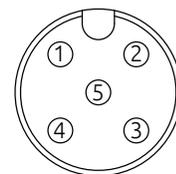
product dimensions (mm)
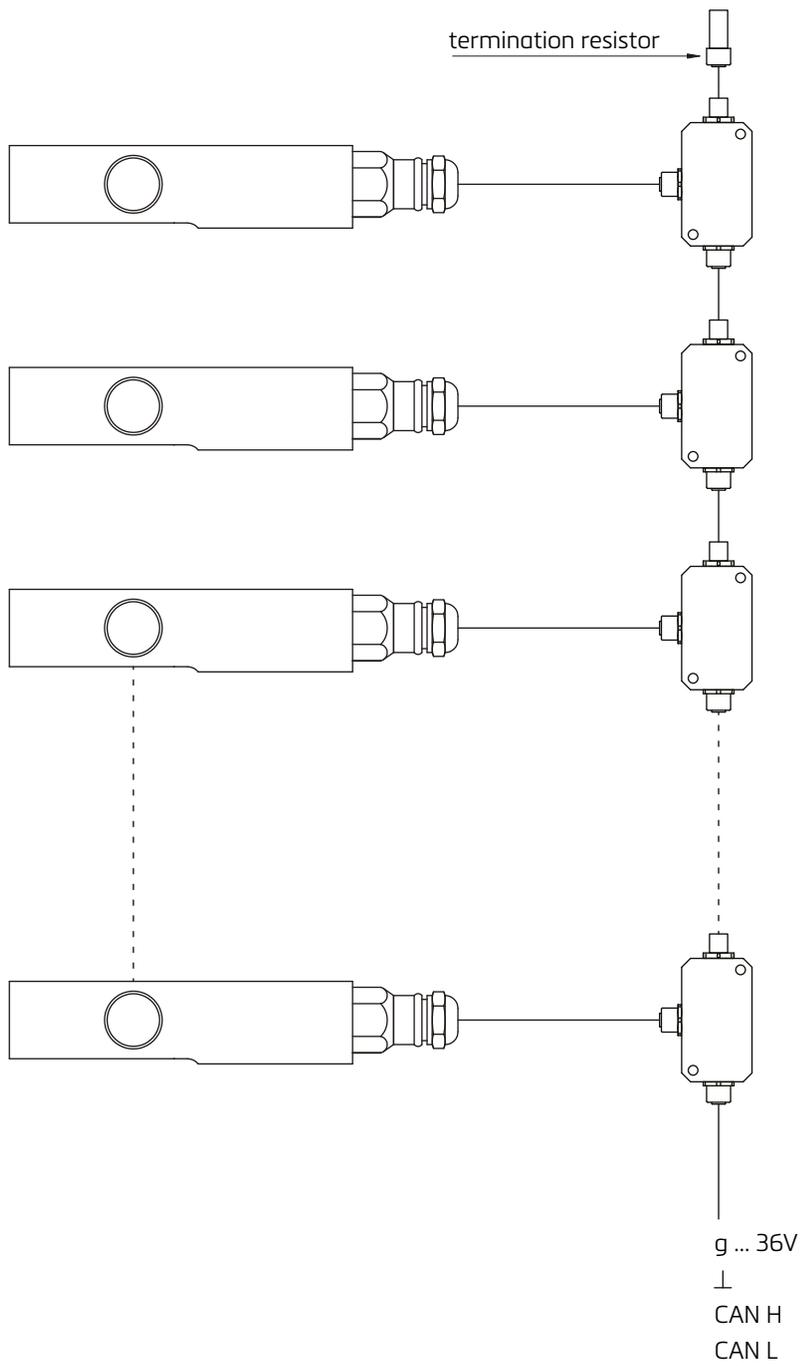

Detail A
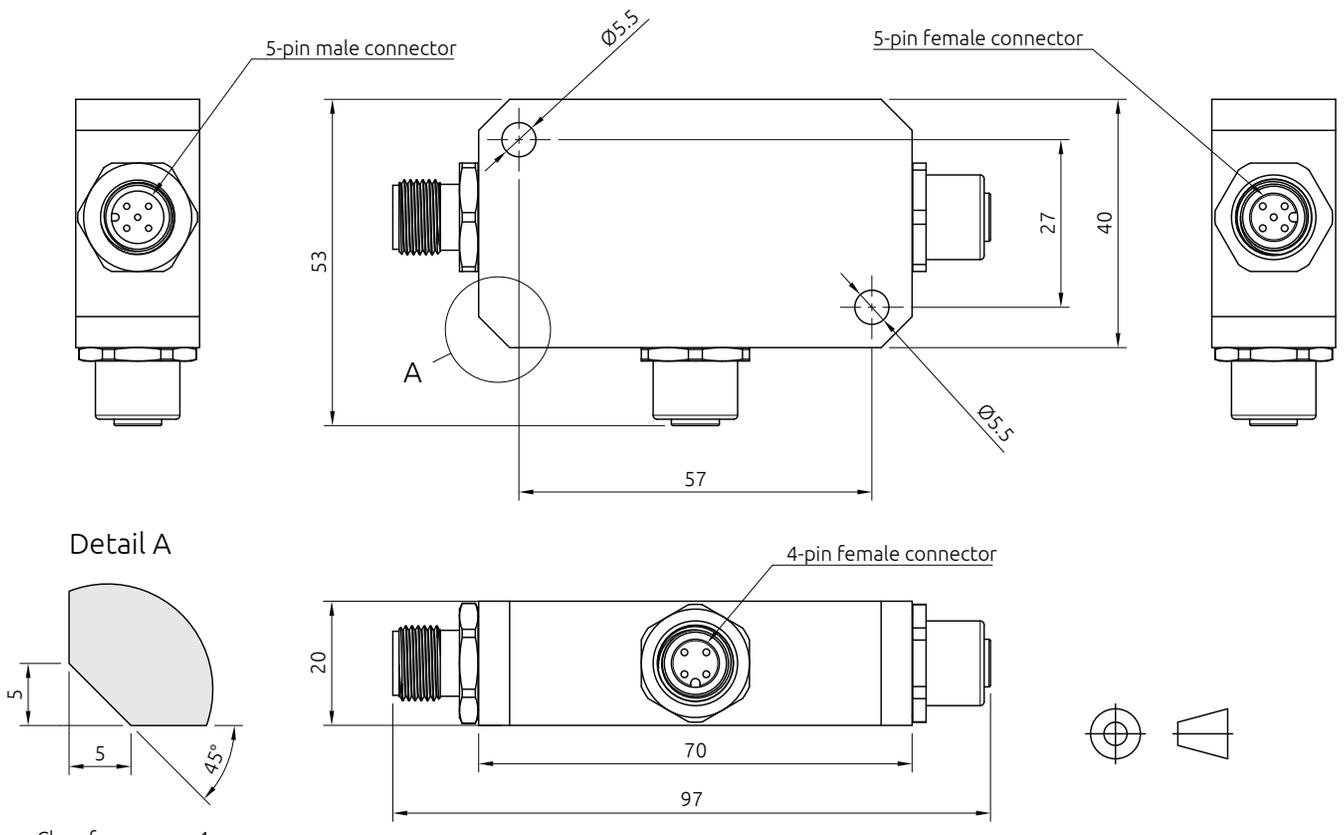
wiring
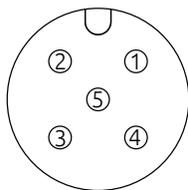
5-pin Male M12 CAN	4-pin Female M12 mV/V	5-pin Female M12 CAN

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

typical configuration

termination resistor

g ... 36V
⊥
CAN H
CAN L

Specifications and dimensions are subject to change without notice.