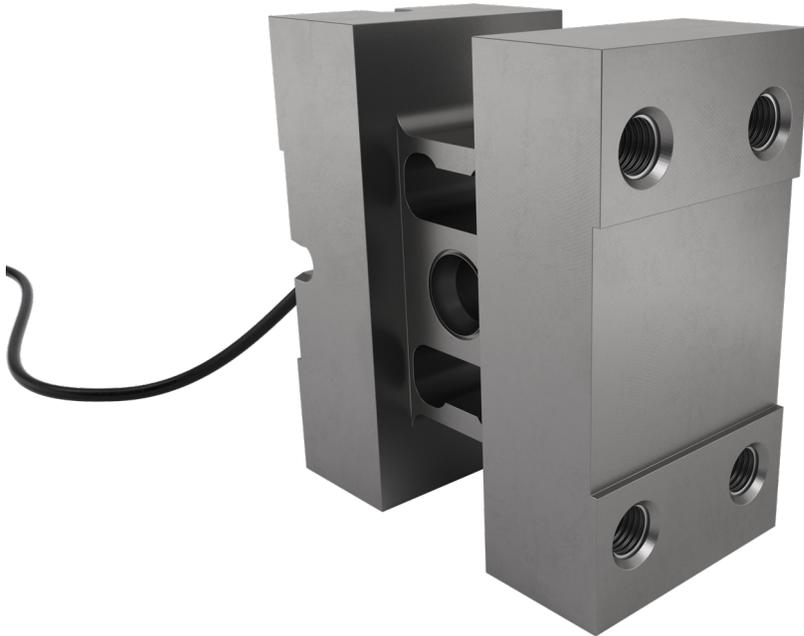


PC5H CAN single point load cell



product description

The PC5H CAN is designed for rear-end bin lifting systems on waste collection vehicles. Its high capacity of 2,000kg allows for highly accurate and rugged weighing performance, replacing alternative aluminium load cell-based systems. Fully hermetically sealed and constructed from stainless steel, the PC5H CAN is built to withstand harsh environments.

An embedded CAN board transforms the PC5H into a fully digital load cell, eliminating the need for external signal converters while maintaining high accuracy and durability in demanding applications.

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

applications

Rear end (REL) bin lifting systems for waste collection vehicles (RCVs).

accessories + options

Variable cable lengths

Default: Free leads; Optional: M12, 5-pin male code-A connector

key features

Capacity of 2,000kg

Stainless steel construction with a bead-blasted surface

Hermetically sealed to IP68/IP69K

Rugged construction

Off-centre load adjusted

High accuracy

Platforms up to 1200x1200mm

Embedded CAN output
(user-selectable CANopen or J1939)

Software-configurable parameters

Works with Flintec FDC application
for analysis & configuration



load cell specifications

Maximum capacity (E_{max})	kg	2,000	
Accuracy class	-	GP	G3
Temperature effect on minimum dead load output (TC_0)	%*RO/10 °C	± 0.0400	± 0.0140
Temperature effect on sensitivity (TC_{RO})	%*RO/10 °C	± 0.0200	± 0.0100
Combined error	%*RO	± 0.0500	± 0.0200
Non-Linearity	%*RO	± 0.0400	± 0.0166
Hysteresis	%*RO	± 0.0400	± 0.0166
Creep error (30 minutes)/DR	%*RO	± 0.0600	± 0.0166
Zero balance	%*RO	±5	
Safe load limit (E_{lim})	%* E_{max}	200	
Ultimate load	%* E_{max}	300	
Safe side load	%* E_{max}	100	
Maximum off-centre loading effect	%*RO/mm	±0.000125	
Maximum off-centre distance at maximum capacity	mm	100	
Compensated temperature range	°C	-10...+40	
Load cell material	-	Stainless steel 17-4 PH (1.4548)	
Sealing	-	Complete hermetic sealing; cable entry sealed by glass to metal header	
Protection according EN 60 529	-	IP68 (up to 2m water depth)/IP69K	
Packet weight	kg	8.3	

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.

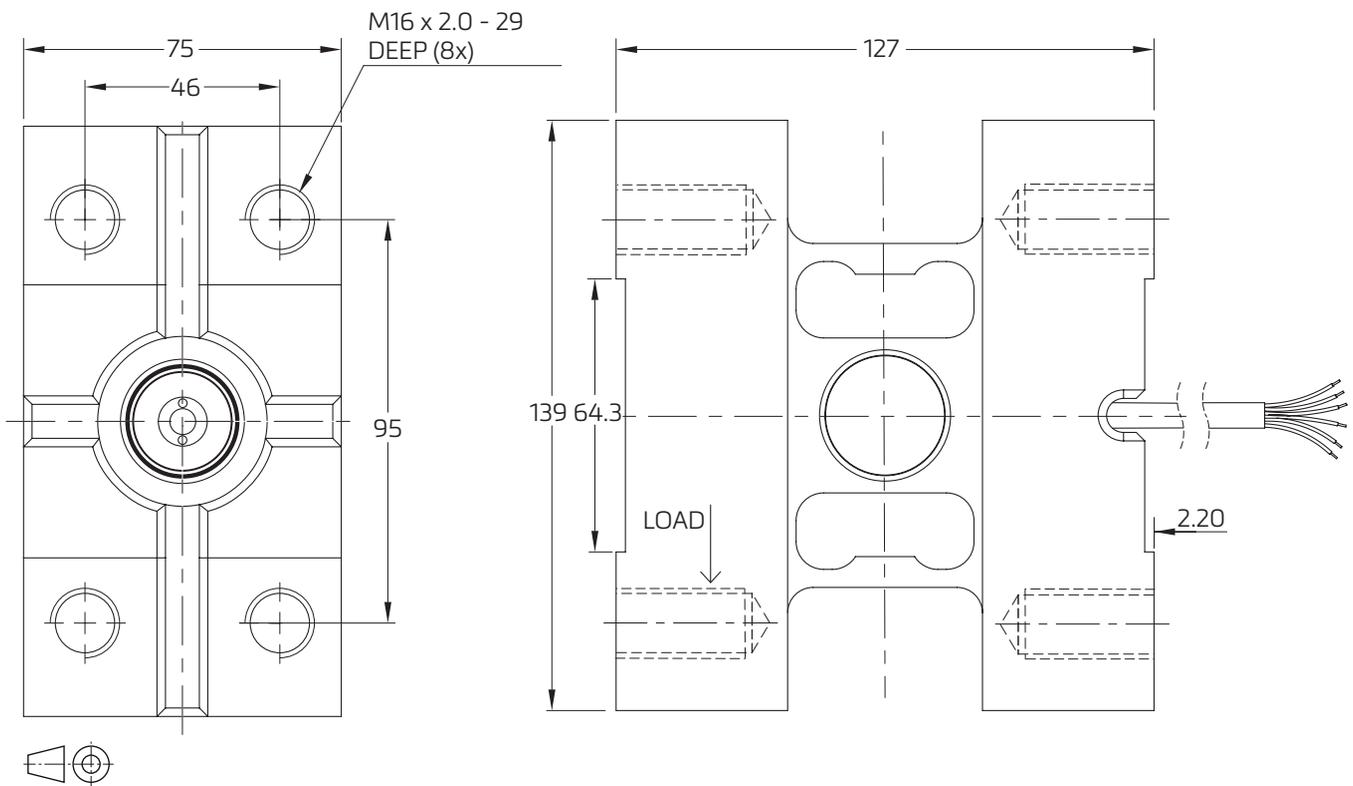
embedded CAN board specifications

Board model	-	CED-20
Supply voltage	VDC	9-32
Supply reversal protection	-	Yes
Oversvoltage protection	-	Yes
Software enabled CAN termination resistor	-	Yes
Operating temperature range	°C	-20 to +70

Storage temperature range	°C	-40 to +80
ADC type	-	24-bit Sigma-Delta
Digital filters	-	Rolling average, IIR
CAN output cable	-	Free leads or an M12, 5-pin male Code A connector
Protocols supported	-	CANopen (default), J1939 (selectable)
Baud rates (CANopen)	bits/s	10k, 20k, 50k, 125k, 250k, 500k , 800k, 1,000k
Baud rates (J1939)	bits/s	250k
Update rates (CANopen)	Hz	5 to 2,500
Update rates (J1939)	Hz	5 to 1,600
Designed to meet	-	Regulation 10, ISO 13766:2018, ISO 14982:1998

The embedded CAN board includes components designed to meet standards such as Regulation 10, ISO 13766:2018, and ISO 14982:1998. However, it is not currently certified for these standards. Customers requiring compliance must confirm suitability with their regulatory requirements.

product dimensions (mm)



wiring

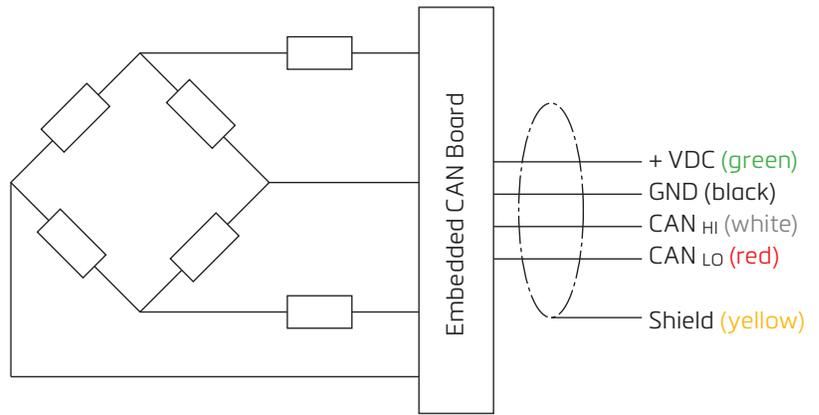
The load cell is provided with a shielded, 4 conductor cable (AWG 24).

Cable jacket: polyurethane

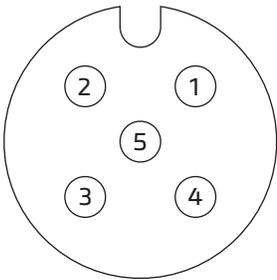
Cable length: 5m

Cable diameter: 5mm

The shield is floating (On request the shield can be connected to the load cell body)



M12 5-PIN Male Code A



Pin	Function	Colour
1*	Shield**	Yellow
2	+ VDC	Green
3	GND	Black
4	CAN _{HI}	White
5	CAN _{LO}	Red

* Pin 1 shield connection is optional.

** Shield connected at sensor is optional.

Specifications and dimensions are subject to change without notice.