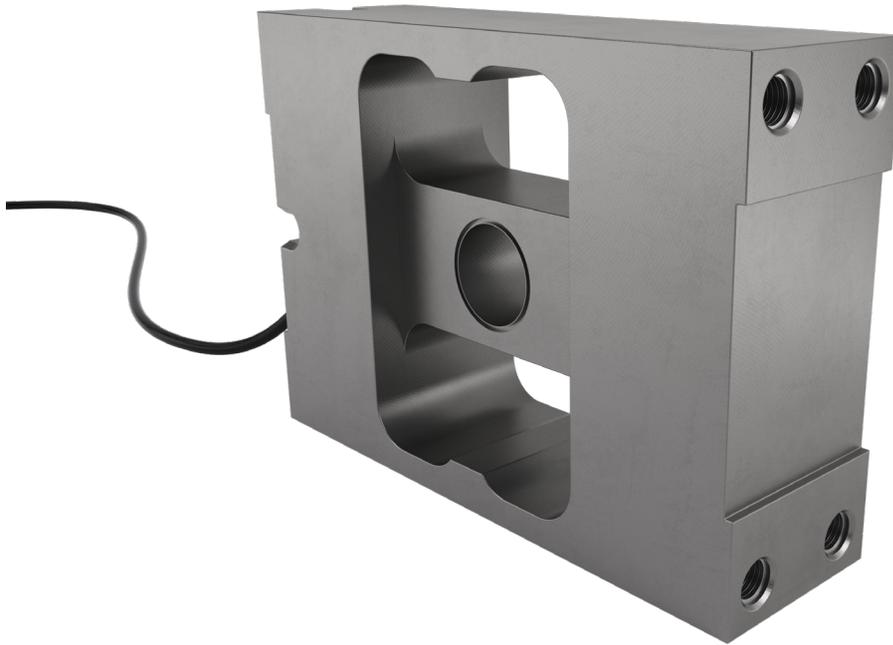


PC6H CAN single point load cell



product description

The PC6H CAN is designed for rear-end bin lifting systems on waste collection vehicles. Its high capacity of 2,000kg ensures precise and reliable weighing, making it an ideal choice for demanding applications. Constructed from stainless steel and fully hermetically sealed, the PC6H CAN is designed to withstand extreme environmental conditions.

An embedded CAN board transforms the PC6H into a fully digital load cell, eliminating the need for external signal converters while maintaining high accuracy and durability in harsh environments.

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 available

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

Very 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	
Packed weight	kg	7.5	

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

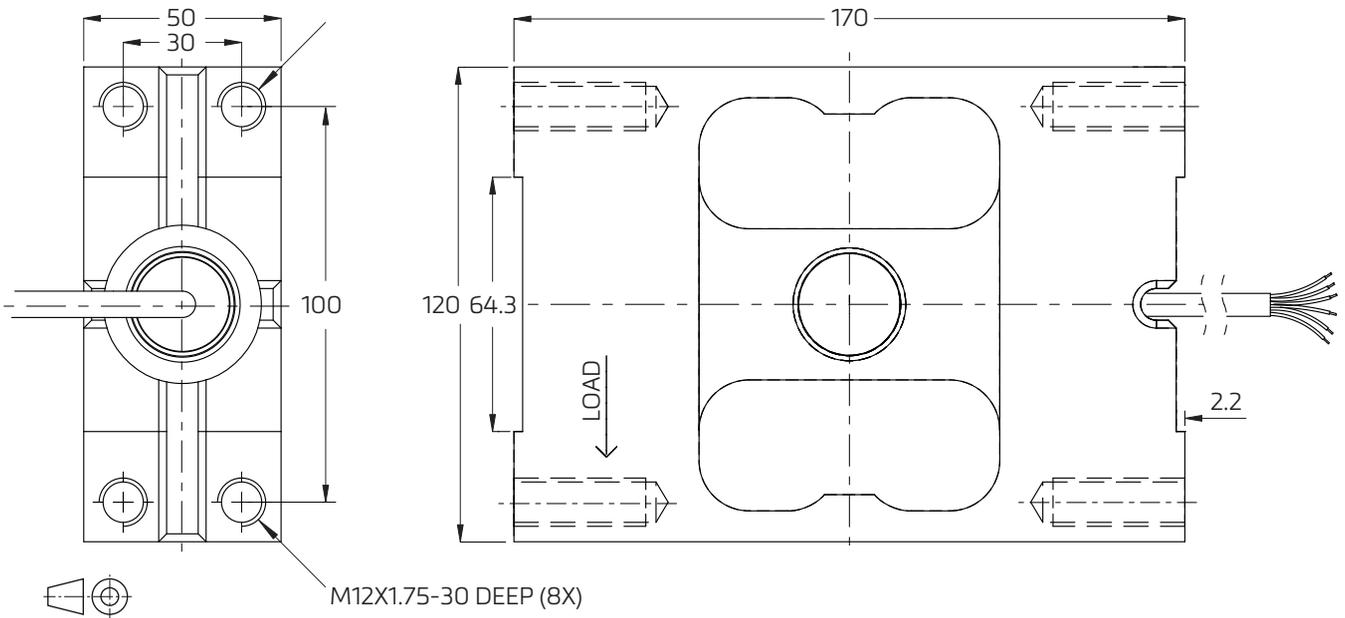
embedded CAN board specifications

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

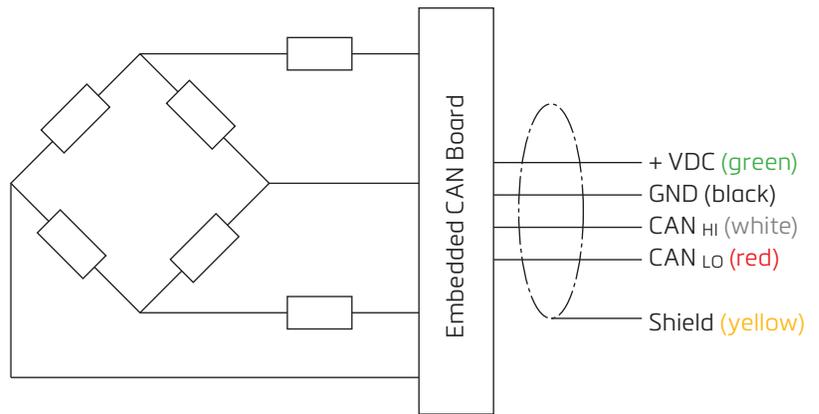
The load cell is provided with a shielded, 4 conductor cable (AWG 24).

Cable jacket: polyurethane

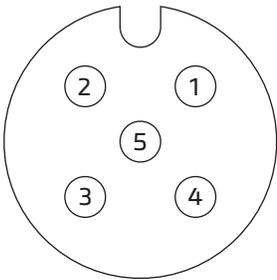
Cable length: 5m

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.