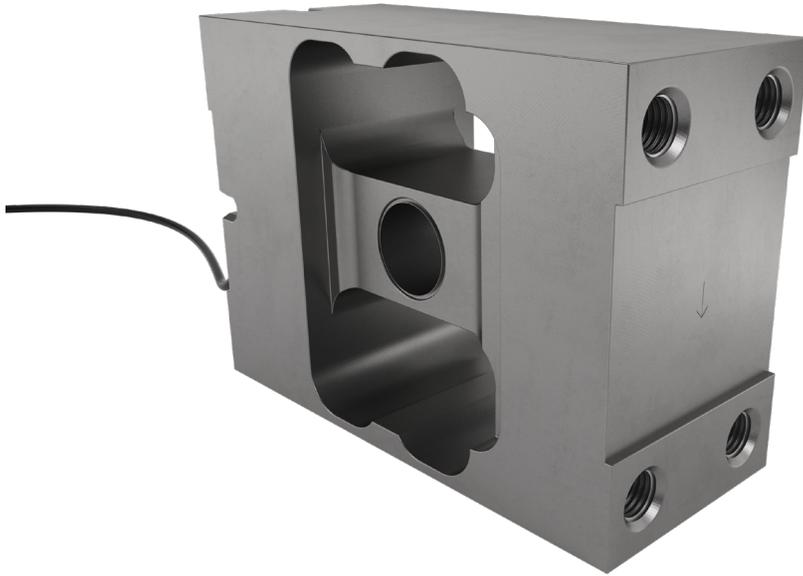


PC2H CAN single point load cell



product description

The PC2H CAN is a high-accuracy single point load cell designed for front-end and rear-end bin lifting systems on waste collection vehicles. The embedded CAN output functionality, supporting CANopen and J1939 protocols, enables seamless digital integration into modern weighing and control systems.

An embedded CAN board transforms the PC2H into a fully digital load cell, eliminating the need for external signal converters. It includes a three-axis inclinometer for tilt compensation and is fully compliant with Regulation 10, ISO 13766:2018, and ISO 14982:1998, supporting reliable integration in harsh automotive environments.

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

applications

Aerial work platforms, agricultural machinery and waste management vehicles.

accessories + options

Optional CAN termination resistor

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

key features

Capacity of 2,000kg

Stainless steel construction

Hermetically sealed to IP68/IP69K

Rugged construction with side mounting

Platforms up to 1200x1200mm

Embedded CAN output (user-selectable CANopen or J1939)

Software-configurable parameters for flexible integration

Reg 10 approved, meets ISO 13766:2018 & 14982:1998 standards

Three-axis inclinometer data for tilt compensation

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
Optional: Temp. effect on min. dead load output (TC_0 opt)	%*RO/10°C	n.a.	± 0.0070
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	± 0.00002	
Maximum off centre distance at maximum capacity	mm	175	
Compensated temperature range	°C	-10...+40	
Load cell material	-	stainless steel 17-4 PH (1.4548)	
Sealing	-	complete hermetic sealing	
Protection according EN 60 529	-	IP68 (up to 2m water depth) / IP69K	
Packet weight	kg	8.3	

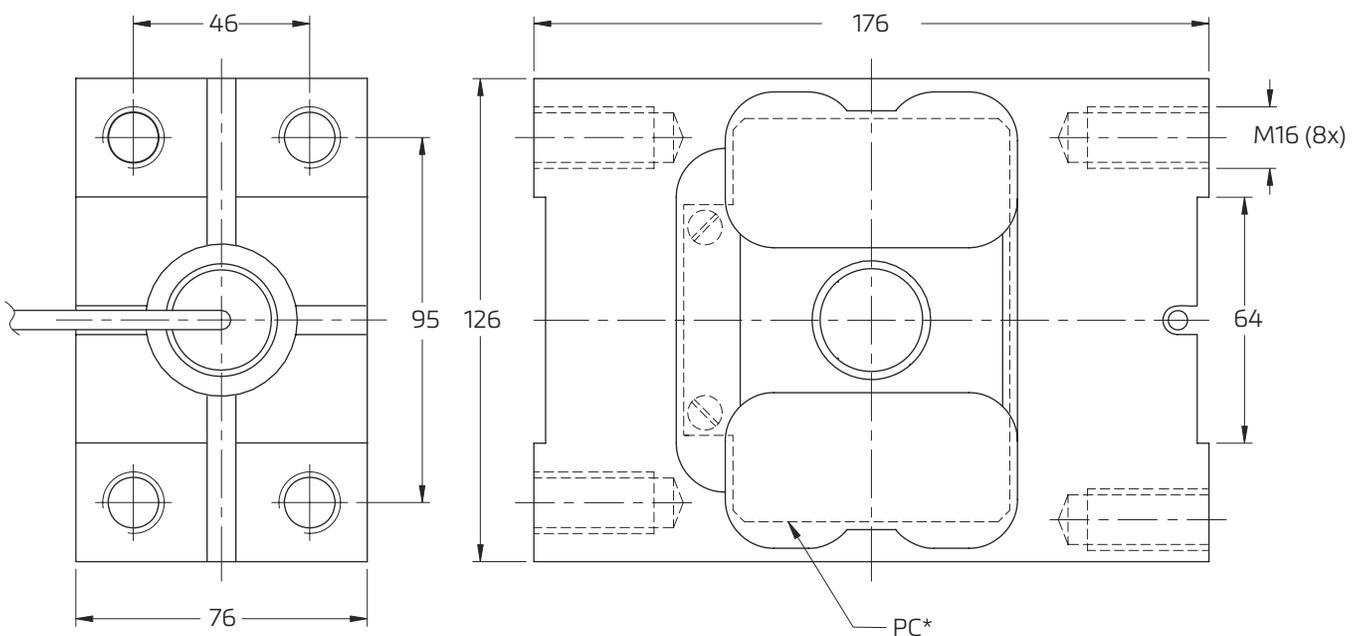
The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.

embedded CAN board specifications

Board model	-	CED-10
Power supply	VDC	+9 to +32
Supply Reversal Protection	-	Yes
Oversvoltage Protection	VDC	≥38
CAN Termination Resistor	-	Optional
ADC Type	-	Single Channel 24-bit Delta Sigma
Digital Filters	-	Selectable FIR, IIR and Averaging

Calibration	-	Electronic calibration in mv/v (ecal) or Test Weights
Weight / Measurement Functions	-	Zero, Gross, Filter etc
CAN output cable	-	Free leads or an M12, 5 pin, Male, Code A connector
Inclinometer	-	Three-axis
Protocols Supported	-	CANopen & J1939
Baud Rate - CANopen	bit/s	10k, 20 k 50k, 125k, 250k, 500k , 800k , 1M
Update rates – CANopen	-	4.7Hz to 4.8kHz
Baud Rate - J1939	bit/s	250k
Update rates – J1939	-	4.7Hz to 4.8kHz
Tilt Resolution	bit	12
Weighing Range	-	Single Interval
Minimum Input Sensitivity	$\mu\text{V}/\text{count}$	0.02
Resolution (External)	-	Resolution (External)
Regulations/ Standards	-	REG10, ISO 13766:2018, ISO14982: 1988
Protection According to EN60529	-	IP68

product dimensions (mm)



Mounting bolts M16 8.8; torque 200 Nm. Torque value assumes oiled threads.
 PC* - Protective cover available on request. 6mm thick, two sides.

wiring

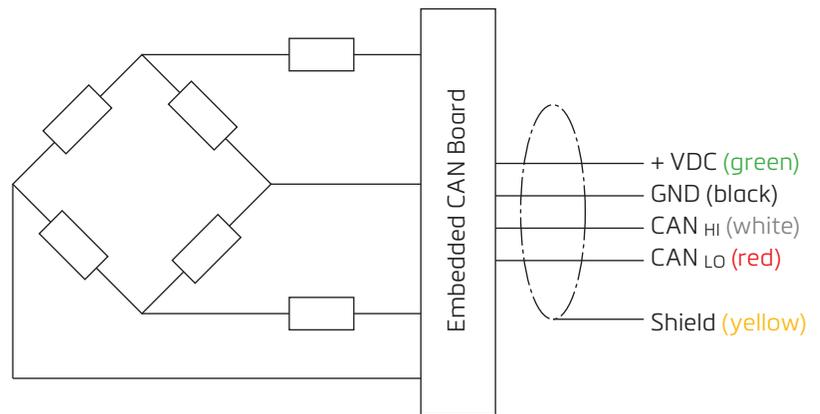
The load cell is provided with a shielded, 4 conductor cable (AWG 24).

Cable jacket: polyurethane

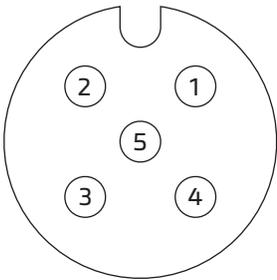
Cable length: 5m

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.