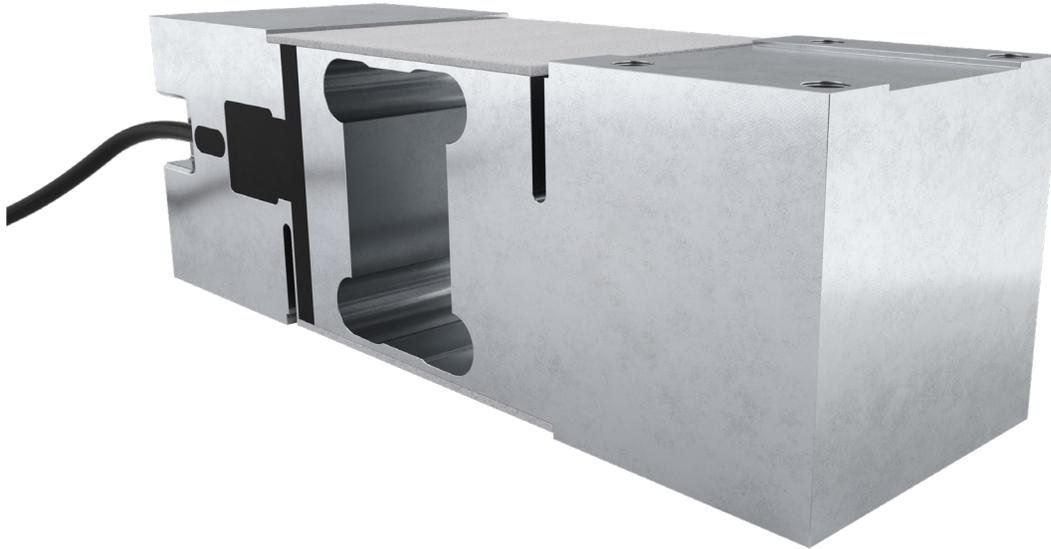


PC60 CAN single point load cell



product description

The PC60 CAN is a medium-capacity single-point load cell designed for bench, platform, and medical scales that require digital precision and robust connectivity. Constructed from aluminium and environmentally sealed with potting compound, it offers excellent durability across a wide range of capacities from 30 kg to 750 kg.

An embedded CAN board transforms the PC60 into a fully digital load cell with support for user-selectable CANopen or J1939 protocol. The internal board includes a three-axis inclinometer and is approved to Regulation 10, ISO 13766:2018, and ISO 14982:1998.

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

applications

Bench scales, platform scales, high speed checkweighers, medical scales.

accessories + options

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

Optional CAN termination resistor

key features

Aluminium construction

Environmentally sealed by potting to IP67

Wide range of capacities from 30kg to 750kg

Platforms up to 600x600mm

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



RoHS
compliant



load cell specifications

Maximum capacity (E_{max})	kg	30 / 50 / 100 / 150 / 200 / 300 / 500 / 750	
Accuracy class		(GP)	G3
Temperature effect on minimum dead load output (TC_0)	%*RO/10°C	± 0.0400	± 0.0187
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.	± 0.0093
Rated Output (RO)	mV/V	2 ± 10%	
Zero balance	%*RO	± 5	
Safe load limit (E_{lim})	%* E_{max}	150	
Ultimate load	%* E_{max}	300	
Safe side load	%* E_{max}	100	
Maximum platform size	mm	600 x 600	
Maximum off centre distance at maximum capacity	mm	200	
Compensated temperature range	°C	-10...+40	
Operating temperature range	°C	-20...+65	
Load cell material		aluminium, optional clear anodized	
Sealing		potted	
Protection according EN 60 529		IP67	
Packet weight	kg	2	

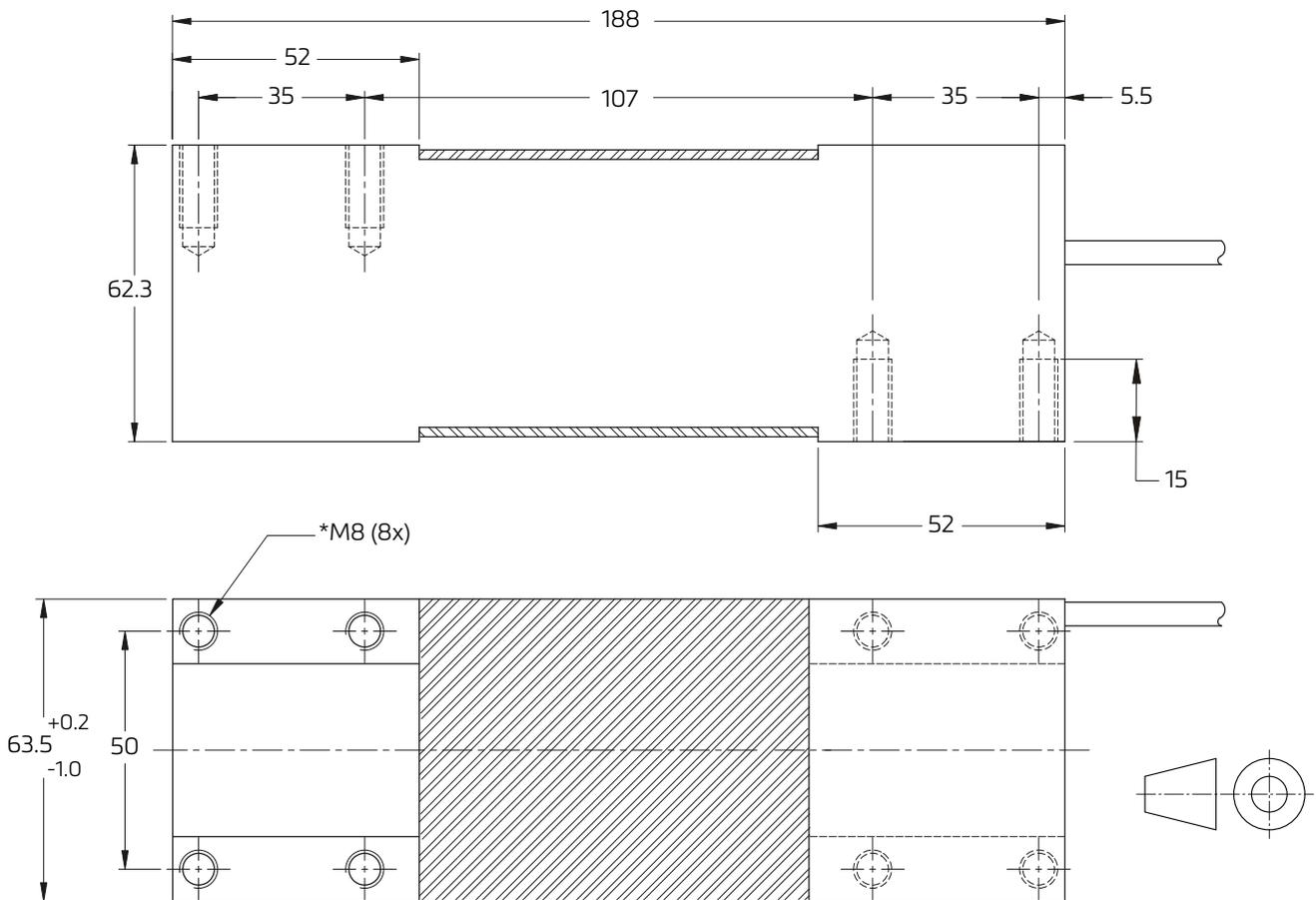
The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.

embedded CAN board specifications

Board model	-	CED-10
Power supply	VDC	+9 to +32
Supply Reversal Protection	-	Yes
Overvoltage 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	µV/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 M8 8.8; torque 25 Nm. Torque value assumes oiled threads.

* Unified thread 5/16-18 UNC is available.

wiring

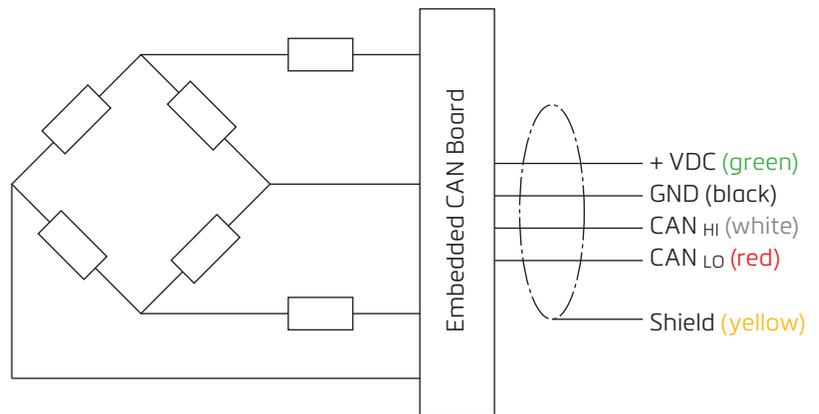
The load cell is provided with a shielded, 6 conductor cable (AWG 26).

Cable jacket: polyurethane

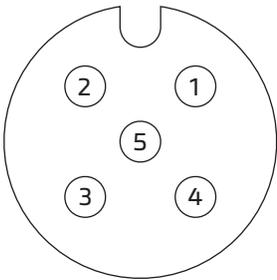
Cable length: 3m

Cable diameter: 5.8mm

The shield is 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.