

# SSB7 CAN beam load cell



## product description

The Flintec SSB7 CAN is a high-precision chassis-mounted beam load cell engineered for on-board vehicle weighing applications. Featuring an integrated embedded CAN output, the SSB7 CAN enables direct digital communication with vehicle systems, simplifying installation and improving system reliability.

Constructed from stainless steel (17-4PH) with an electro-polished finish, the SSB7 CAN is built to withstand harsh road conditions. Its IP68 rating ensures superior protection against moisture, road salt, and contaminants, making it highly durable in demanding environments.

The user-selectable CAN protocol (CANopen or J1939) makes it ideal for biomass fuel trucks, waste collection vehicles, fleet management systems, and agricultural weighing systems requiring robust digital integration.

## applications

On-board vehicle weighing (underbody chassis installations)

Carbon-neutral biomass fuel delivery

Commercial waste collection vehicles (pay-by-weight services)

Fleet management systems requiring real-time load monitoring

Agricultural trailers weighing systems

## key features

Capacities of 8t and 12t

Stainless steel (17-4PH) construction

Hermetically sealed to IP68

Embedded CAN output

User-selectable CANopen or J1939 protocol

## options

Default: Free leads

Optional: M12, 5-pin male code-A connector

## accessories

Compatible range of electronics



## load cell specifications

Maximum capacity ( $E_{max}$ )	kg	8,000	12,000	8,000	12,000
Accuracy class	-	GP		G3	
Non linearity	%*RO	±0.04		± 0.020	
Combined error	%*RO	±0.05		± 0.020	
Creep error (30 minutes) / DR	%*RO	±0.06		± 0.016	
Temperature effect on minimum dead load output ( $TC_0$ )	%*RO/10°C	±0.04		± 0.0140	
Temperature effect on sensitivity ( $TC_{RO}$ )	%*RO/10°C	±0.02		± 0.0100	
Zero balance	%*RO	± 5			
Compensated temperature range	°C	-10...+40			
Safe load limit ( $E_{lim}$ )	%* $E_{max}$	200			
Ultimate load	%* $E_{max}$	300			
Sealing	-	complete hermetic sealing			
Load cell material		stainless steel 17-4PH			
Protection according EN 60 529	-	IP68 (up to 2m water depth) / IP69K			
Load cell weight	kg	12			
Surface finish	-	Electro-polished			

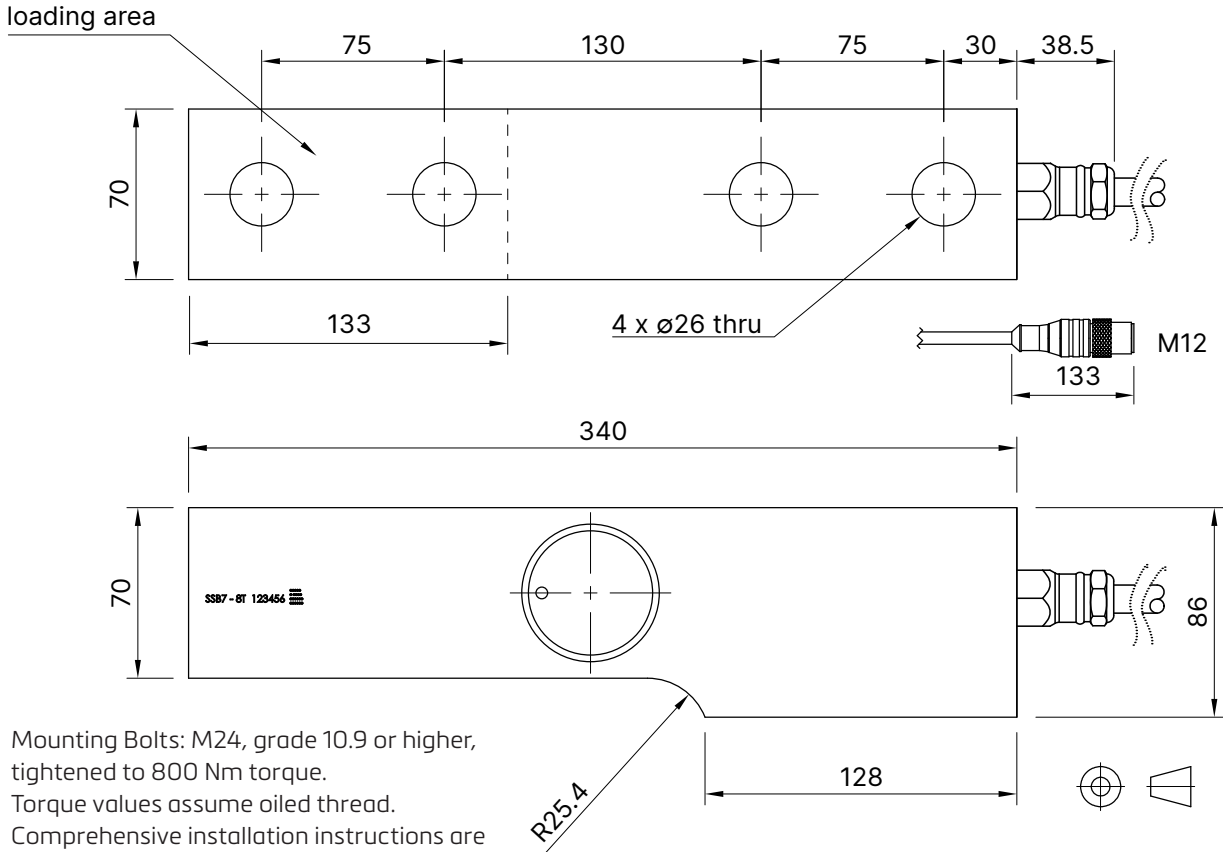
All values are nominal and subject to manufacturing tolerances. Specifications may change without notice.

## embedded CAN board specifications

Board model	-	CED-20
Supply voltage	VDC	9–32
Supply reversal protection	-	Yes
Overvoltage 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

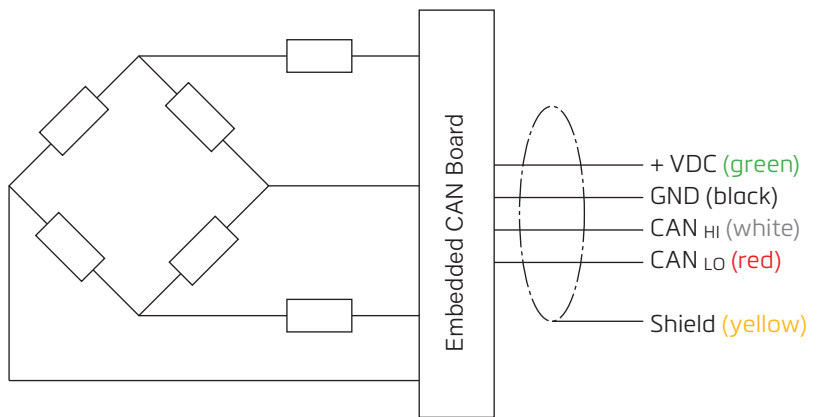
The load cell is provided with a shielded, 4 conductor cable (AWG 24).

Cable jacket: polyurethane

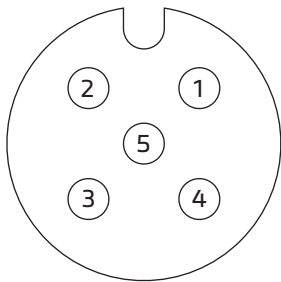
Cable length: 5.0 m

Cable diameter: 5 mm

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



## optional: M12 male connector



Pin	Function	Colour
1*	Shield**	Yellow
2	+ VDC	Green
3	GND	Black
4	CAN <sub>HI</sub>	White
5	CAN <sub>LO</sub>	Red

\* Pin 1 shield connection is optional. \*\* Shield connected at sensor is optional.

Specifications and dimensions are subject to change without notice