DSB8 beam load cell



product description

The DSB8 is a double ended shear beam load cell engineered for industrial vehicles and agricultural machinery where reliable, high capacity payload measurement is required in demanding conditions. With a low profile design and 10t capacity, the DSB8 fits easily into existing truck and trailer size envelopes, making it suitable for a wide range of on-board vehicle weighing installations.

applications

Under body vehicle weighing systems including tipper trucks, trailers and agricultural machinery such as muck spreaders and feed mixers.

options

Specific cable and connector available on request

Embedded CANbus output available on request

accessories

Compatible range of hardware

Compatible range of electronics

key features

Capacity of 10t (22klb)

Corrosion resistant stainless steel

Hermetically sealed to IP68

Low profile design

Designed for on-board vehicle weighing

Easy to install into existing truck and trailer size envelopes

Compatible with various trucks and trailers

Wide operating temperature range of –40°C to +80°C

Wide excitation voltage range of 5–15V

CE UKCA RoHS compliant IP68

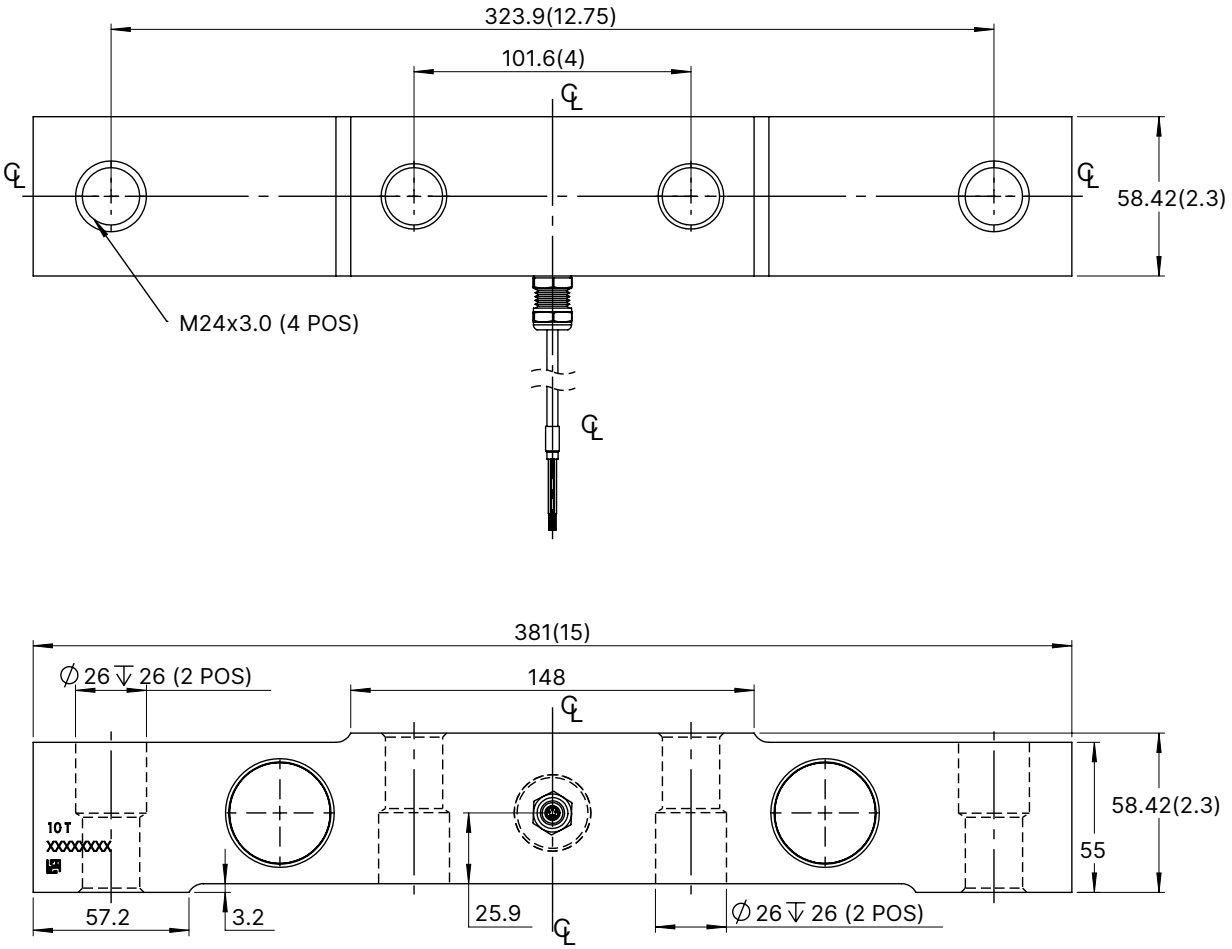
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specifications

Maximum capacity (E_{max})	kg	10,000
Accuracy class	-	GP
Temperature effect on minimum dead load output (TC_0)	%*RO/°C	± 0.0200
Temperature effect on sensitivity (TC_{RO})	%*RO/°C	± 0.0100
Combined error	%*RO	± 0.5
Rated Output (RO)	mV/V	2.0 ± 0.01
Zero balance	mV/V	-0.015 to +0.020
Excitation voltage	V	5 - 15
Input resistance (R_{LC})	Ω	387 ± 25
Output resistance (R_{out})	Ω	354 ± 3
Insulation resistance (100 V DC)	MΩ	≥ 5,000
Safe load limit (E_{lim})	%*E_{max}	200
Ultimate load	%*E_{max}	300
Safe side load	%*E_{max}	100
Operating temperature range	°C	-40 to +80
Load cell material	-	stainless steel 17-4 PH
Sealing	-	complete hermetic sealing
Protection according EN 60 529	-	IP68
Packet weight	kg	

The limits for Combined Error, TC0 and TCRO are typical values.

product dimensions (mm)



wiring

The load cell is provided with a four core, shielded cable (24AWG)

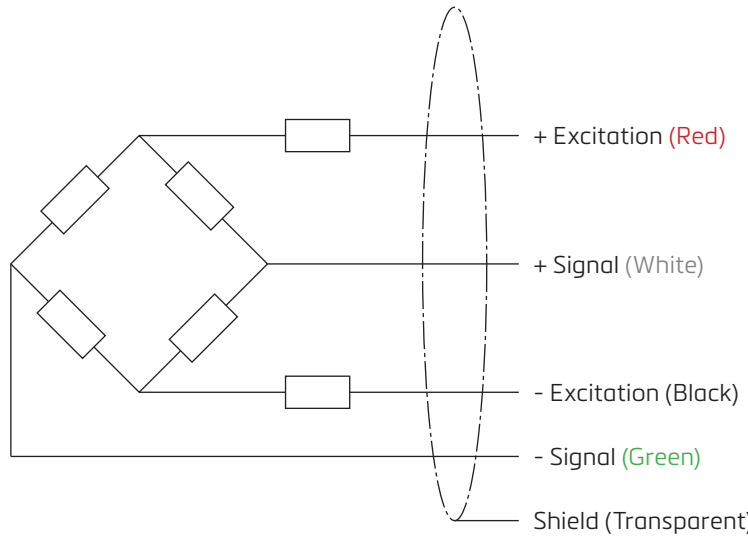
Cable jacket: Polyurethane

Cable length: 6.4m

Cable diameter: 5.5mm

Shield is floating

Specific cable and connector options are available on request.



Specifications and dimensions are subject to change without notice