Extensometer

FEATURES

- Strain gage-based sensor, redundant option available
- Coated alloy steel
- 2 bolt holes, M10 12.9 required
- 15,000 PLd capable

APPLICATIONS

- Off-highway vehicles, agricultural equipment
- Construction equipment
- Lifting machines
- Telescopic loaders

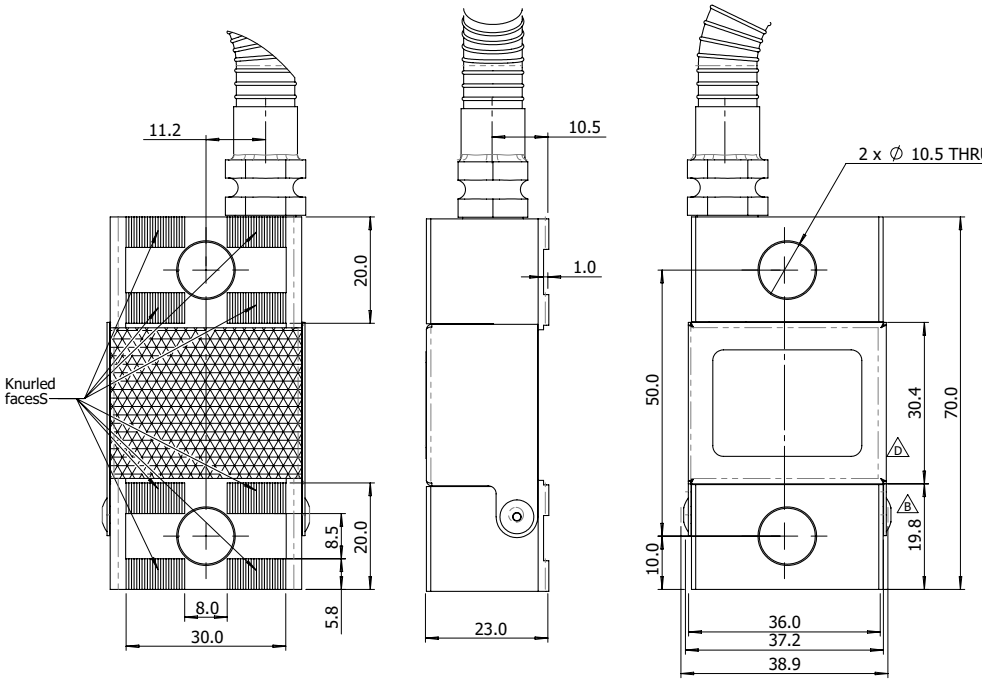
DESCRIPTION

The Model 182 Extensometer is a sensor-based instrument that is designed to measure the deformation of a load-bearing specimen.

The design of the Model 182 features a robust construction and provides good repeatability, even in harsh environments. This extensometer can be mounted on any machinery or vehicle. Applications include: telescopic loaders, scissor lifts, boom lifts, forklifts and other load lifting machinery. The device is an ideal choice for industrial vehicle applications, especially where safety is a critical factor in preventing loss of life.

Flexibility is also a unique feature that the Model 182 offers. This device is available with several output level trim options. Ranging from different connectors (M12 or DT type) to different protocols (mV/V, CAN Bus, CAN Open or J1939), the Model 182 extensometer is an excellent solution that can meet each customer's needs.

OUTLINE DIMENSIONS



Connector Pin Assignment with optional DT04-6P connector

Pin	Function
1	Shield
2	CAN V+
3	CAN GND
4	CAN H
5	CAN L
6	No connection

Extensometer

SPECIFICATIONS		
PARAMETER	**VALUE**	**UNIT**
VPG Transducers accuracy class	Z	
Eq. rated capacity – RC*	120	kg
Eq. rated output – RO*	1.6–2.3	mV/V
Zero balance	0.2	±mV/V
Temperature effect on zero	0.00026	mV/V/°C
	0.02	±% of R.O./°C
Temperature range, compensated	–30 to +80	°C
Temperature range, safe	–40 to +90	°C
Temperature range, storage	–40 to +100	°C
Cable type	CAN ready, PU jacket, DT04-4P receptacle, grounded shield	
Cable length	0.2, 0.5, 1.0	m
Construction	Coated alloy steel sensor, stainless steel electronics housing, RTV potting	
Environmental protection	IP67	

* When sensing 500 με

All specifications are subject to change without notice.

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