



**FREDERICKS  
COMPANY**

High Performance Sensing Solutions™

# Our high performance sensors are improving MEWP safety.

## Chassis and Platform Inclinometers and Tilt Switches

- $\pm 25^\circ$  linear operating range
- Two axes
- 0.5 to 4.5 V DC output
- CAN J1939 communications
- Relay output
- Horizontal or vertical mounting
- Applies to position 1 and 3 (see below)



## Boom Inclinometers

- $\pm 60^\circ$  linear operating range
- One axis
- 0.5 to 4.5 V DC output
- CAN J1939 communications
- Horizontal and vertical mounting
- Applies to position 2 (below)



## Safety Regulations

- EN280:2013+A1 - European Safety Standard for MEWPs
- ANSI A92.20/22/24 - North American standard for MEWPs

ANSI A92 has new requirements for load sensing for mobile elevating work platforms (MEWPs) used in North America to improve operator safety. Fredericks' inclinometers and height sensors are used as part of the load sensing system to measure the pantograph leg angle (or more simply, the scissor leg angle), and in turn, derive the height of the work platform. When combined with other sensors outputs, the load of the working platform can be calculated. Our devices are built to withstand the toughest conditions, featuring a wide operating temperature range with a minimum rating of IP67 for environmental protection.

## Why Fredericks?

For more than 80 years, Fredericks has specialized in tilt measurement products and sensors that set standards and promise precision, all designed and manufactured with pride in the USA.

We guarantee customer satisfaction and our "not too big, not too small" operation is what enables us to offer a true partnership that prioritizes uptime, lead time and service.

## What is a MEWP?

- Scissor lifts
- Aerial devices
- Telescopic and articulating boom lifts
- Vertical mast lifts



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