



SENSOR TECHNOLOGY FOR MOBILE EQUIPMENT



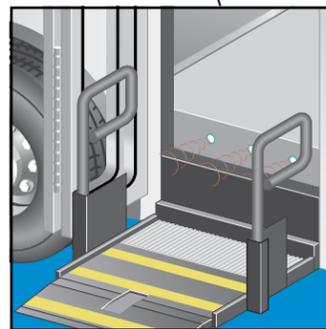
Hard working mobile equipment requires sensors that can survive the most demanding environments. Scorching heat, freezing temperatures, rain, road salt, corrosive chemicals, radio frequency noise, and the highest levels of shock and vibration are just another day on the road.

Designed with mobile equipment applications in mind, Pepperl+Fuchs provides the toughest and most versatile sensors on the market. When your equipment has to operate in extreme environments, choose the sensor that withstands the abuse. Visit us at: www.sensing.net/me1

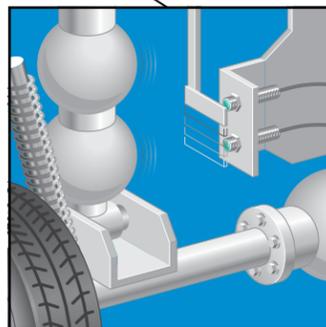
BUS



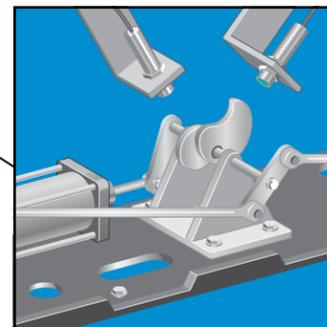
REFUSE TRUCK



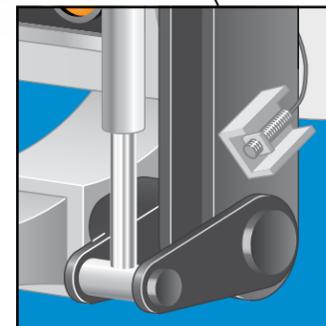
- Lift Platform Monitoring**
- Ultrasonic technology detects people or objects on lift
 - Prevents lift retraction when occupied



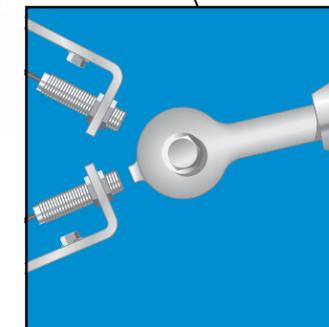
- Kneeler Position**
- Lowers bus suspension for easy step up
 - Full extension and retraction verification



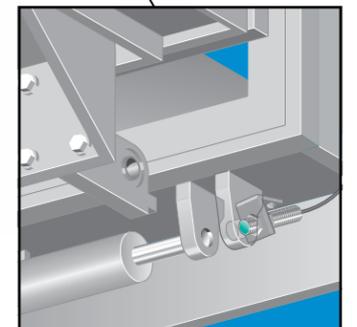
- Door Position**
- Precise, fully opened and closed position
 - Withstands continuous temperature fluctuations



- Fork Position**
- Fork retracted and stowed
 - Fully encapsulated/moisture proof



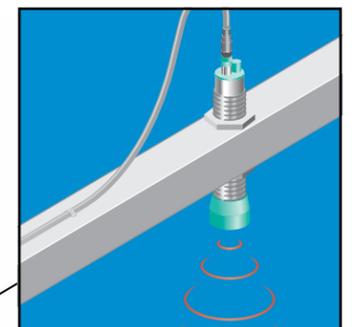
- Compaction Cylinder Position**
- Confirms full extension and retraction
 - -40 °C temperature rating



- Rear Door Locking Pin**
- Door is locked and secured
 - Salt spray and corrosion resistant

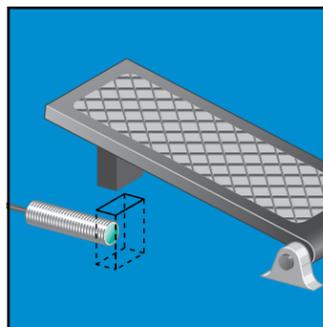


AGRICULTURAL SPRAYER



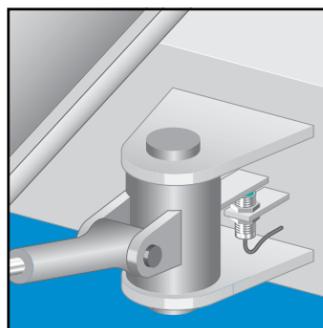
- Sprayer Height Monitoring**
- Automatically adjusts sprayer to proper height over crops

DUMP TRUCK



Brake Pedal Position

- Prevents transmission engagement while braking
- Initiates brake light



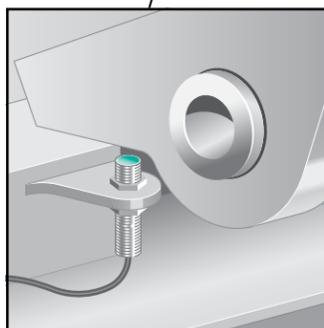
Chute Position

- Confirms chute is in center position
- Allows fifth wheel to be lowered or raised



Drum Rotation

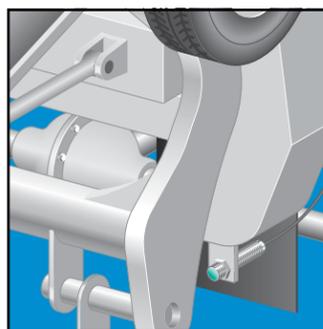
- Counts drum revolutions
- Ensures proper mixing



Dump Bed Down Position

- Provides feedback when dump bed is down
- 100 V/m radio frequency immunity

CONCRETE MIXER

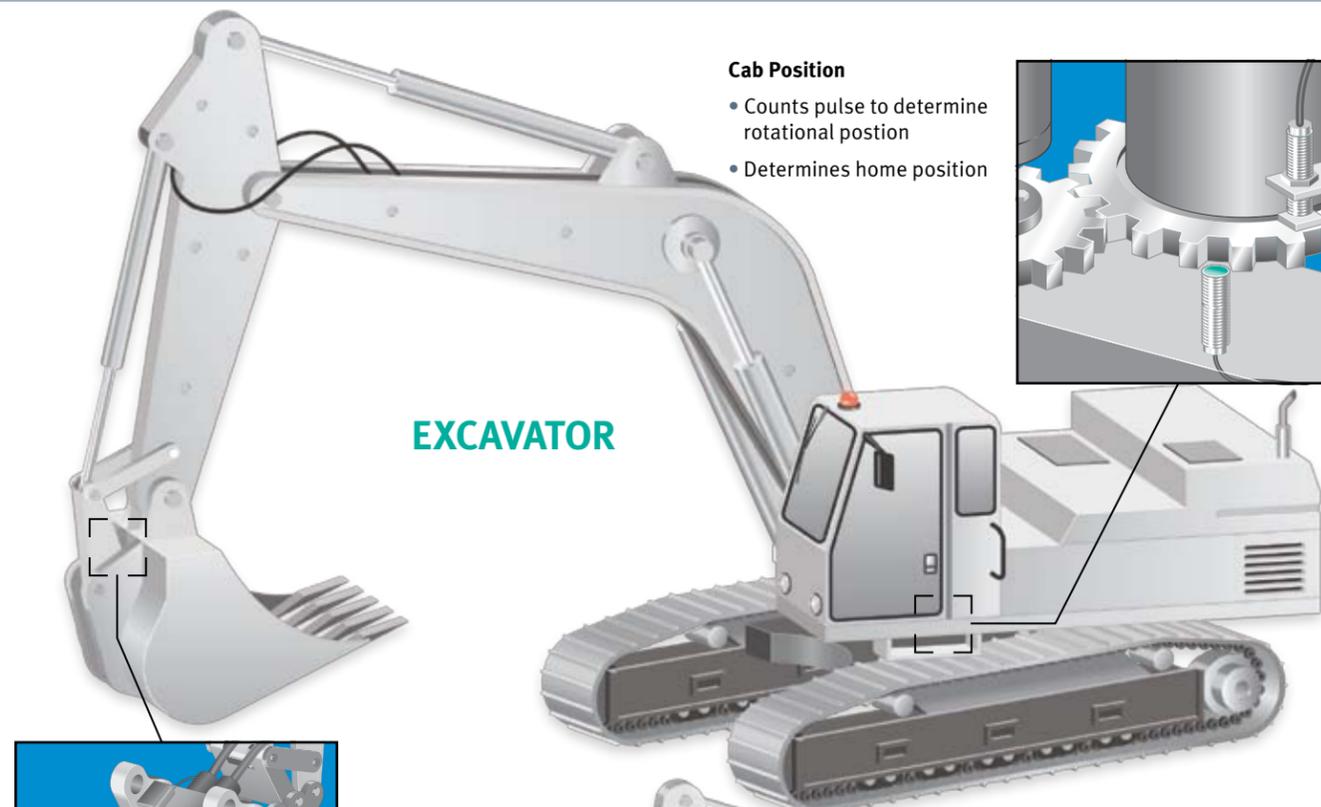


Fifth Wheel Position

- Fifth wheel is locked in the "up" position
- Survives extreme shock and vibration

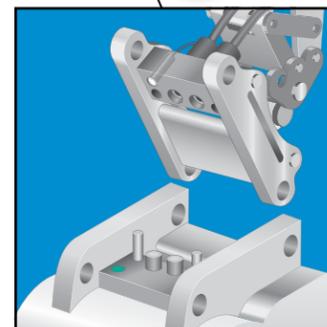
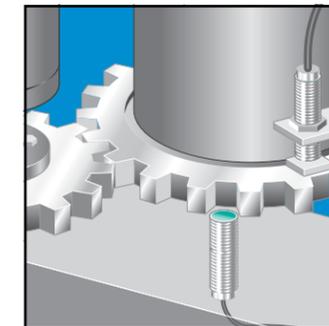


EXCAVATOR



Cab Position

- Counts pulse to determine rotational position
- Determines home position

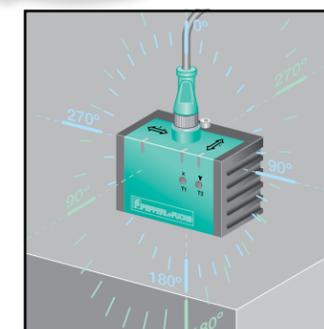


Attachment Detection

- RFID of attachment tool
- Inductive sensor monitors attachment tool presence

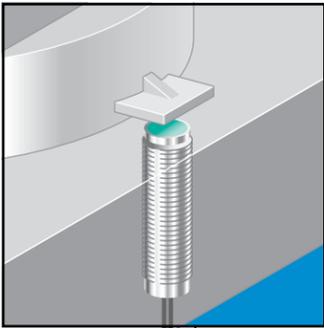
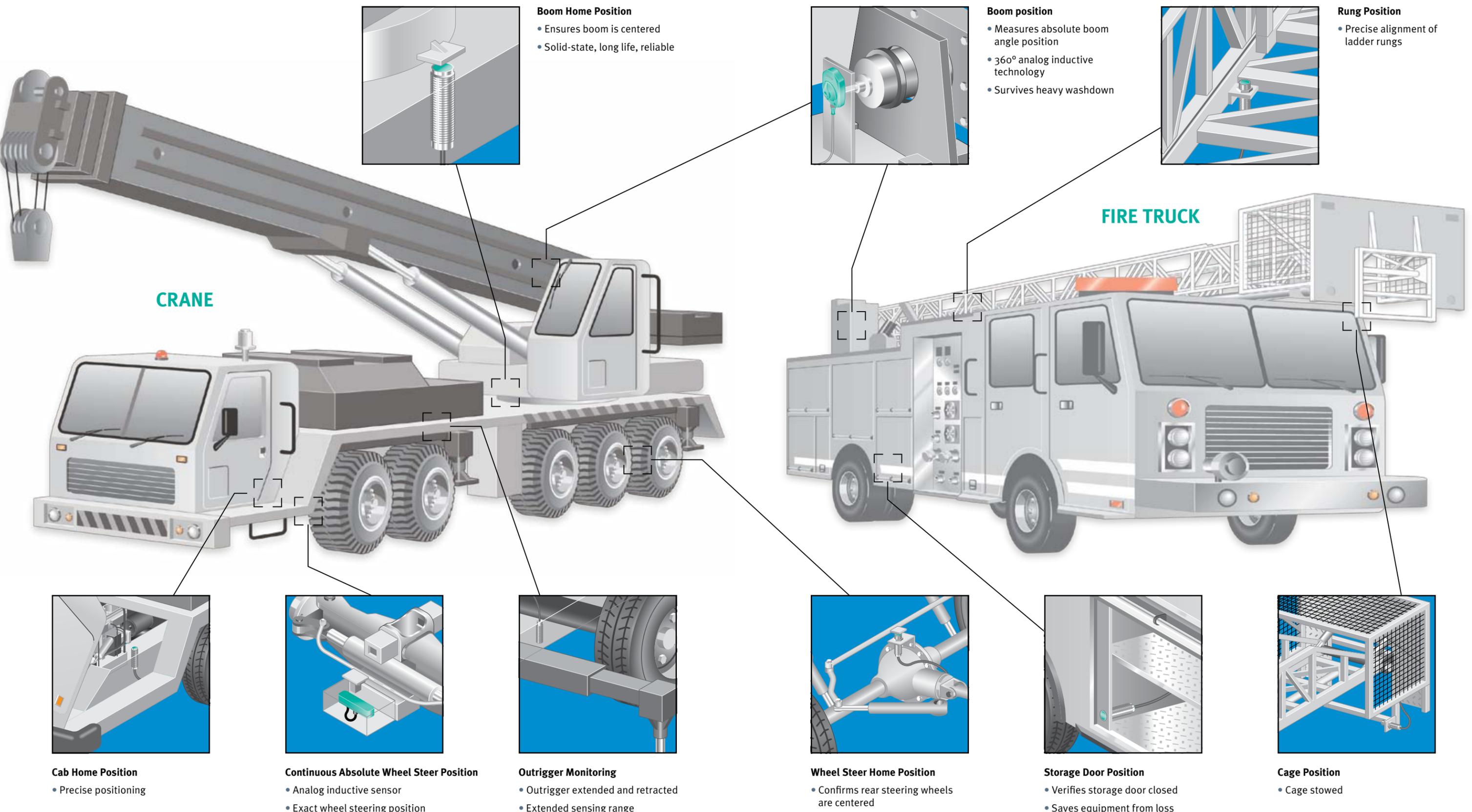


HARVESTER



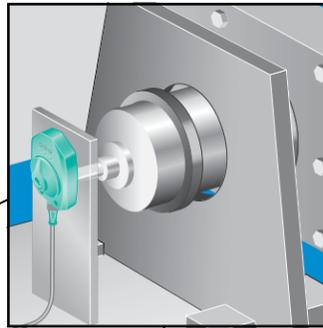
Inclination detection

- Determines degree of tilt relative to the earth
- Automatic cab leveling



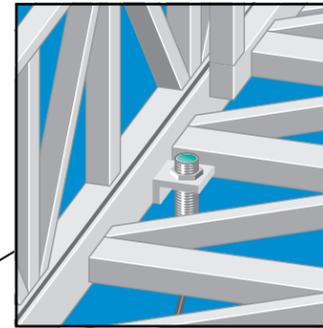
Boom Home Position

- Ensures boom is centered
- Solid-state, long life, reliable



Boom position

- Measures absolute boom angle position
- 360° analog inductive technology
- Survives heavy washdown

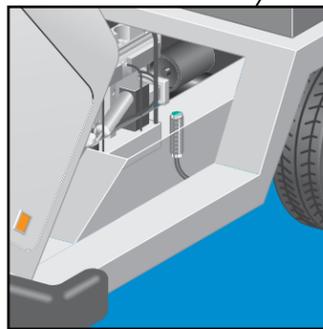


Rung Position

- Precise alignment of ladder rungs

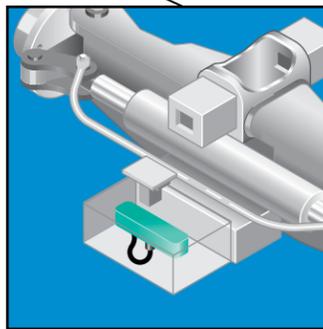
CRANE

FIRE TRUCK



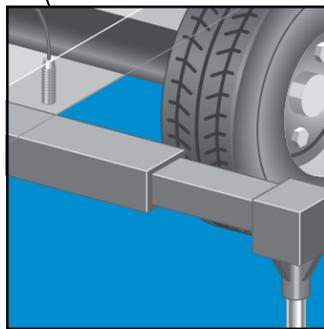
Cab Home Position

- Precise positioning



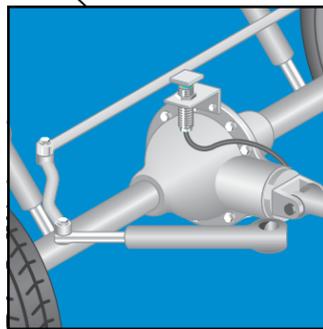
Continuous Absolute Wheel Steer Position

- Analog inductive sensor
- Exact wheel steering position



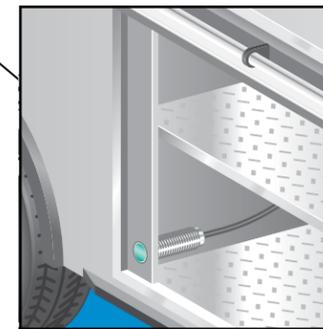
Outrigger Monitoring

- Outrigger extended and retracted
- Extended sensing range



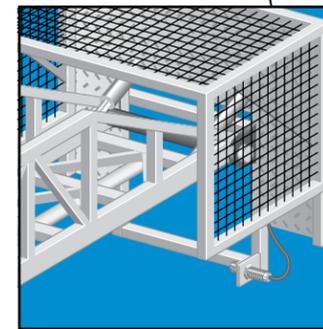
Wheel Steer Home Position

- Confirms rear steering wheels are centered



Storage Door Position

- Verifies storage door closed
- Saves equipment from loss



Cage Position

- Cage stowed

FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements—wherever you need us.

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Contact

Pepperl+Fuchs Inc.
1600 Enterprise Parkway
Twinsburg, Ohio 44087 · USA
Tel. +1 330 486-0001 · Fax +1 330 405-4710
E-mail: fa-info@us.pepperl-fuchs.com

Worldwide Headquarters

Pepperl+Fuchs GmbH · Mannheim · Germany
E-mail: fa-info@de.pepperl-fuchs.com

USA Headquarters

Pepperl+Fuchs Inc. · Twinsburg · USA
E-mail: fa-info@us.pepperl-fuchs.com

Asia Pacific Headquarters

Pepperl+Fuchs Pte Ltd · Singapore
Company Registration no. 199003130E
E-mail: fa-info@sg.pepperl-fuchs.com

www.pepperl-fuchs.com

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