

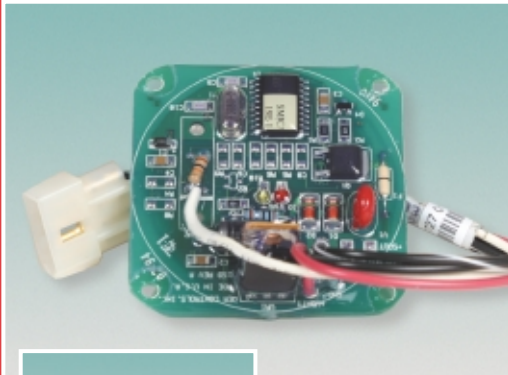


CONTROLS INC.

CERTIFIED ISO 9001

CERT # US - 1892a

DRI-62 Drum Rotation Indicator System



The heart of the system is the DRI-62 control module



Transmitter (Sensor) shown with optional enclosure, cable and friction wheel



The DRI-62 is designed to work with a variety of available handle designs

The DRI-62 Drum Rotation Indicator System for mobile cranes and boom trucks puts precise control over drum rotation and rate of movement right at the operator's fingertip with unparalleled durability and reliability. By providing the operator with a direct indication of hoisting drum movement, the DRI-62 provides the exact control that is vital for applications where the precise positioning of building materials or equipment is required. The DRI-62 offers unique "fine" and "coarse" thumping rate selectability. "Coarse" mode, intended for normal operating situations, indicates each 0.6" of line travel. For more precise operations, such as in tight spaces, the operator can select "fine" mode, which provides indication for each 0.2" of line travel. Retrofitting to existing equipment is simple and economical since the complete Drum Rotation Indicator System consists of only two (2) components:

A **Transmitter (Sensor)** functions as a standalone module, and can accept almost any pulsed input signal from an external sensor. When used in conjunction with the optional enclosure, cable and friction wheel, the unit is mounted onto the hoisting drum and activated by means of the transmitter friction wheel. The transmitter interprets the external signal or rotation of the drum as strong electrical pulses that allow the operator to maintain remote electrical monitoring of the indicator(s).

An **Indicator (Thumper)** is a tactile indicator that receives the electrical pulses from the transmitter and converts them into mechanical movement via a solenoid. The thumping rate increases in direct proportion to the drum speed— up to a maximum 15 pulses per second at drum speeds of 60 RPM (600 inches / min) or higher.

Features and Options:

- Detects 0.2" of travel
- Selectable fine or coarse sensing
- Meets / exceeds SAE J1332 specifications
- Long-life solenoid "Thumper" with "true-positive" pulse feel
- 10 to 28 VDC power input
- Diagnostic LED's
- Electrical protection circuitry
- IP65 environmental sealing— severe duty rated, waterproof and corrosion resistant
- Reversible mounting bracket
- Easy to install and retrofit

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Technical Data:

Transmitter (Sensor)

- **Supply Voltage:**10 to 28 VDC
- **Power Consumption:**2.5 amp peak DC (single indicator);
5.0 amp peak DC (dual indicator)
- **Resolution:**0.2" per thump (fine mode);
0.6" per thump (coarse mode)
- **Protection:**Transient Voltage, Short Circuit,
Reverse Polarity, Solenoid "Pin Jam"
- **Diagnostics:**Quantity 2,
LED's Power On / Pulse Out
- **Temperature Rating:**-40°C to +70°C
- **Friction Wheel:**3.1" diameter, urethane non-skid surface
- **Enclosure:**Severe service duty rated, IP65 watertight,
non-corrosive, epoxy painted, 0.187" aluminum wall.
Stainless steel, 0.375: diameter output shaft,
heavy-duty sealed bearings with outer shaft seal
- **Radial Loading:**20 lbs.
- **Axial Loading:**10 lbs.
- **Shaft Speed:**6000 RPM
- **Mounting Bracket:**Stainless steel with two (2) stainless steel heavy-duty
springs, non-corrosive with a multi-slotted base for
added interchangeability

Indicator (Thumper)

- **DC Resistance:**9.5 Ohm @ 20°C
- **Duty Cycle:**Continuous oscillating, rated at 50% maximum,
protected by transmitter electronics
- **Operation:**Pull-type actuation, tubular design,
high force in limited space
- **Bobbin Assembly:**Low friction nylon bobbin insert rated at a minimum of
25 million operations
- **Plunger (Pin):**Electroless nickel-plated, precision-ground for low friction
coefficient, long wear with stainless steel return spring

⚠ WARNING: It is the purchaser's responsibility to determine the suitability of any OEM Controls product for an intended application, and to insure that it is installed and guarded in accordance with all federal, state, local and private safety and health regulations, codes and standards.

Due to the unlimited variety of machines, vehicles and equipment on which our controls are used, and the numerous standards which are frequently the subject of varying interpretation, it is impossible for OEM Controls personnel to provide expert advice regarding the suitability of a given controller for a specific application. The flexibility of our products allows us to offer thousands of custom configurations. We can advise you of the various features that are available and you can examine models to see what meets your needs. We believe our customers' engineering departments should be the qualified experts in their own product field. If the product will be used in a safety critical application, the customer must undertake appropriate testing and evaluation to prevent injury to the ultimate user.

Should you have any questions or if any of the above warning is unclear, please contact OEM Controls at 10 Controls Drive, Shelton, CT 06484, FAX: 203.929.3867, TEL: 203.929.8431.



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