

# EGG COUNTERS

## *4 inch optical egg counter*

### **Applications**

The IR4 is an infrared electronic egg sensor which accurately counts eggs in any arrangement on a rod or belt conveyor. Spanning 4 inches, the sensor can count up to 3 eggs abreast. A sealed design allows the sensor to operate in harsh poultry house conditions, even during wash down. The sensor uses infrared light to detect eggs without touching them.

### **Features**

The use of infrared technology means the eggs are counted without being touched. This eliminates the risk of damage and/or soiling. As the electronics are sealed, the counter can be left in place in the poultry house even during cleaning

- Highly accurate
- No separation required
- Environmentally sealed
- Solid state
- Low operating current
- Compact size
- Excellent background suppression
- Applicable to individual egg belts or cross conveyor



## Physical Dimensions

| Dimension        | Inches | cm     |
|------------------|--------|--------|
| Length           | 4.875  | 12.383 |
| Width            | 1.750  | 4.445  |
| Height           | 1.000  | 2.540  |
| Mounting Holes   |        |        |
| Center to Center | 4.500  | 11.430 |
| Diameter         | 0.187  | 0.475  |

## Cable (3 - conductor 22 AWG, PVC jacket)

| Color | Name | Description     |
|-------|------|-----------------|
| Red   | Vin  | Power Supply In |
| Black | Gnd  | Supply Ground   |
| White | Out1 | NPN output      |

## Electrical Characteristics

| Parameter                 | Min  | Typical | Max | Units | Notes              |
|---------------------------|------|---------|-----|-------|--------------------|
| Vin (Power Supply In)     |      |         |     |       |                    |
| Input Voltage             | 9    |         | 25  | VDC   |                    |
| Input Current             | 16   | 20      | 30  | mA    | Vin = 18VDC        |
| Input Capacitance         |      |         | 50  | uF    |                    |
| Out1 (NPN Open Collector) |      |         |     |       |                    |
| Sink Current (Iout)       | 1    |         | 300 | mA    |                    |
| Output Low Voltage (Vout) | 0.7  | 0.9     | 1.0 | VDC   | Iout = 10mA        |
|                           | 2.0  | 2.2     | 2.5 | VDC   | Iout = 100mA       |
| Pulse Width               | 1.66 | 150     | 425 | mS    | Factory adjustable |



## Egg Counters are part of PMSI Integrated Solutions



### ENVIRONMENTAL CONTROL

- Control and monitor every aspect of your environment
- Maximize your feed conversions with feed scales which interface with **CIII** hardware

### EGG FLOW CONTROL

- Egg counting and flow control
- Verification of cross conveyor operations

### HACCP MONITORING AND CONTROL

- Cooler, Rinse water, Wash water temperatures
- Chlorine, PH levels



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