

EGG COUNTERS

3 inch optical egg counter

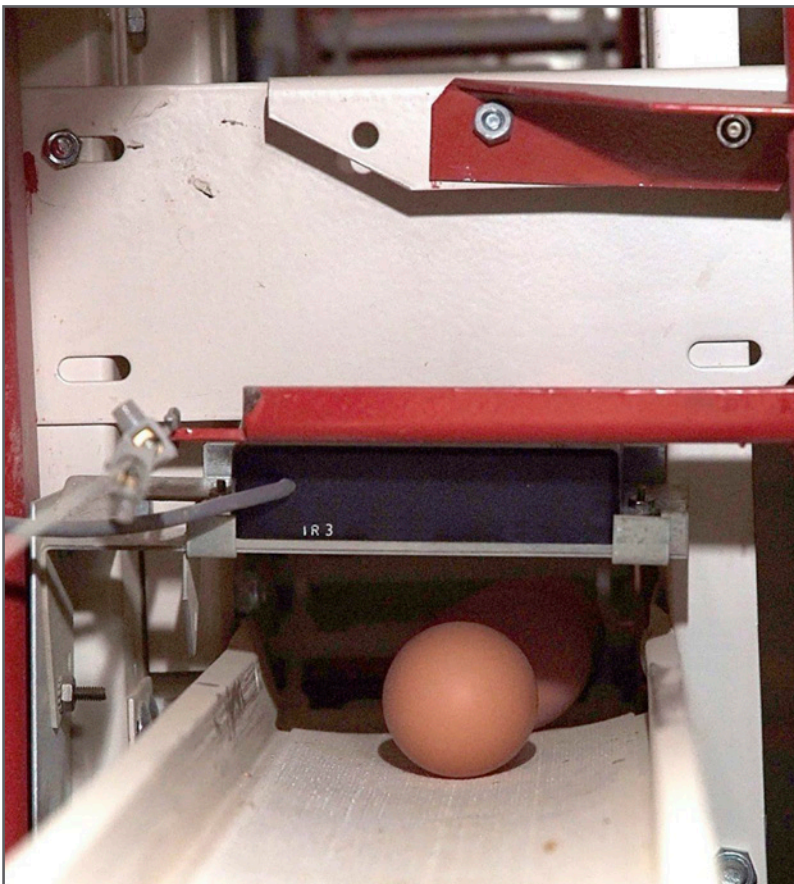
Applications

The IR3 Electronic Egg Sensor accurately counts eggs in any arrangement on a rod or belt conveyor. Spanning 3 inches, the sensor can count side-by-side eggs on a 4 inch belt. A sealed design allows the sensor to operate in harsh poultry house conditions, even during washdown. The sensor uses infrared light to detect eggs without contact.

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
- Only applicable to individual egg belts



Recommended Mounting Height:

1 inch (2.5 cm) above a "large" egg
Typically 2.75 inches (7 cm) above conveyor

Optical Detection Range:	0.4 - 1.6 inches (1 - 4 cm) from sensor to egg
Conveyor Speed:	0 - 50 feet per minute (0 - 15 meters per minute)
Operating Temperature:	0 - 70C
Storage Temperature:	-20 - 85C



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 **CIH**[®] 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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