



NEWS RELEASE

For Immediate Release

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Deflection Monitor from Eriez® Protects Vibratory Feeders and Conveyors by Detecting Overflow Material and Damaged Components

The [Deflection Monitor](#) from Eriez® intelligently tracks the operation of vibratory feeders and conveyors to prevent any damage during operation. The unit can detect abnormal amounts of material on vibratory trays or when some feeder components are failing.

The Deflection Monitor detects changes in tray deflection because material accumulation on the tray surface affects operation. As material accumulates on the tray surface, it adds weight to the tray, affecting performance and possibly damaging the feeder. The monitor alerts, warns or shuts down the feeder so the tray can be cleaned to improve performance and reduce costly downtime.



The Deflection Monitor uses a vibration transducer, which is mounted on the tray, and a comparator amplifier, which monitors changes in the tray deflection. The vibration transducer sends a constant signal to the comparator amplifier. If an upset occurs and the tray becomes overloaded, the amplifier senses this and trips a relay to shut down the feeder.

Monitoring feeders for broken drive belts or springs, under deflection (low feed) or over deflection (broken springs or over frequency) is also tracked by the Eriez Deflection Monitor. Features of this unit include:

- Circuitry pre-set at factory to correspond with feeder amplitude
- Comparator can be integrated with safety or signaling circuits
- Sensor cable length available for onsite and remote locations
- NEMA 12 enclosure standard; NEMA 4 enclosure available
- Adjustable time integration

Eriez is recognized as world authority in advanced technology for magnetic, vibratory and inspection applications. The company's magnetic lift and separation, metal detection, x-ray, materials feeding, screening, conveying and controlling equipment have application in the process, metalworking, packaging, recycling, mining, aggregate and textile industries. Eriez

manufactures and markets these products through ten international facilities located on six continents. For more information, call toll-free (888) 300-ERIEZ (3743) within the U.S. and Canada. For online users, visit www.eriez.com or send e-mail to eriez@eriez.com. Eriez World Headquarters is located at 2200 Asbury Road, Erie, PA 16506.