

# *Controls for* ELECTROMAGNETIC *Vibratory Equipment*



## CONTROLS FOR

# Vibratory Equipment

Eriez offers a new line of solid state Feeder Controls with state-of-the-art electronics at competitive prices. The company's line features three styles of controls... UniCon, the standard "base model" control, UniCon HC (High Current) control, and the G Series controls.

The UniCon series is designed to provide a precise amount of vibration for Eriez vibratory feeders as well as competitive electromagnetic feeders. These controls accommodate the vast majority of industry applications. Eriez' full or half wave operation capability allows a plant to operate one control while competitive units provide half wave operation only.

In addition to the three control series presented here, Eriez can modify or custom design an electromagnetic feeder control to suit your specific application.



## SOLID STATE CONTROLS

Control Model	Voltage	Amperage	Enclosure NEMA Type	DC/Analog Signal Capable	Closed Loop Option	Bias / Gain	Manual Adjustment	Full or Half Wave Capable	Certifications			
									CE	CUL	UL	ESA*
UniCon	115 or 230	2 to 15	N12 / IP54	•		•	Pot	•	•	•		
UniCon	115 or 230	2 to 15	Chassis	•		•	Pot	•	•			
UniCon HC	115 or 575	15 to 40	N4	•	•	•	Pot	•	•	•		
UniCon HC	115 or 575	15 to 40	Chassis	•	•	•	Pot	•	•	•		
G30 Hz	115 or 230	12	N12 / IP54	•	•	•	Touch Pad	•	•			•
G40 Hz	115 or 230	12	N12 / IP54	•	•	•	Touch Pad	•	•			•
G50 Hz	115 or 230	12	N12 / IP54	•	•	•	Touch Pad	•	•			•
G60 Hz	115 or 230	12	N12 / IP54	•	•	•	Touch Pad	•	•			•
G30 Hz HW	115 or 230	12	N12 / IP54	•	•	•	Touch Pad	•	•			•
All G Series	115 or 230	15	N4X	•	•	•	Touch Pad	•	•			
All G Series	115 or 230	15	Chassis	•	•	•	Touch Pad	•	•			

\* ESA certification upon request

# Variable Speed Controls

FOR ELECTROMAGNETIC EQUIPMENT

## UniCon Controls

The single base model UniCon replaces many older style controls and offers more features. Its compact design and standard features address most customer applications. The unit is packaged in a NEMA 12 (IP54) enclosure and carries CE, CUL and UL certification while the chassis enclosed model is CE certified. It can be configured for either 115V or 240V operation, full or half wave output operation and can be operated either from a manual potentiometer on the front of the control box or an internal 4-20mA or 0-10V DC signal.

### FEATURES:

- Easy to use, economical, variable speed control
- Rotary dial controls speed and feed rate
- Chassis mount, NEMA 12 (IP54) enclosure standard
- Operates on 115 or 240 volts
- Rated from 2 to 15 amps at 115 volts and 1 to 15 amps at 240 volts
- Includes bias and gain internal pots to set the operating (displacement) range of feeder. Sets span of the pot on lid
- Accepts 4-20 MA or 0-10 VDC signals
- Include interlock for remote on/off
- Full wave and Half wave capable
- NEMA 12 version: UL, CUL, and CE tagged;  
Chassis version: CE tagged

### Recommended for:

Compact Electromagnetic Feeders / Conveyors

A Model  
C Model  
H Speed  
HS Model

Large Electromagnetic Feeders

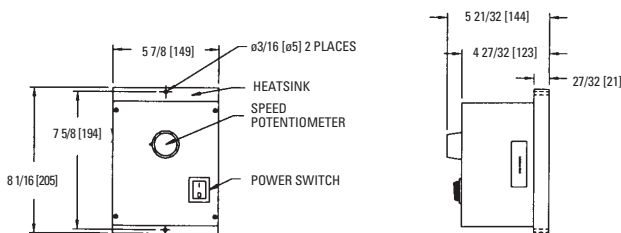
B Model

Bin Vibrators

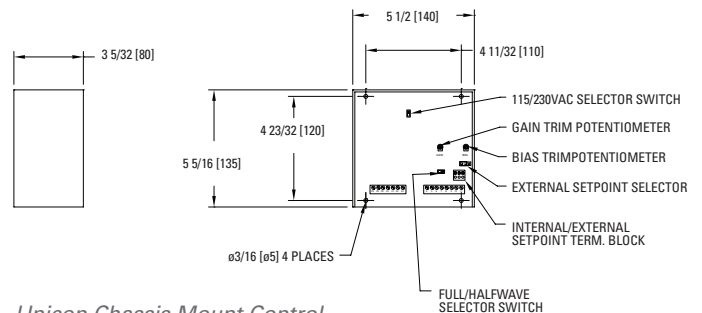
115 and 230 Volt



Chassis Mount Control



UniCon NEMA 12 (IP54) Control



UniCon Chassis Mount Control



# UniCon HC Controls (High Current)

The UniCon HC Control extends the range of the UniCon family to include controls that have the majority of features required built into a standard design.

The UniCon HC has the ability to operate feeders with a voltage and amperage range that go beyond the original UniCon control with precision.

## FEATURES:

- Additional features to UniCon model
- Models available from 5 to 40 amps
- 25 and 40 amp base models
- 115, 230, 380, 460 and 575 volts
- Accept 4-20 MA signal
- Remote on/off capability
- Bias and Gain pots
- Auto/Manual selector switch
- Chassis mount and NEMA 4 enclosures standard
- Closed-Loop operation with accelerometer available to maintain tray deflection
- UL, CUL and CE tagged



## Recommended for:

Compact Electromagnetic Feeders / Conveyors

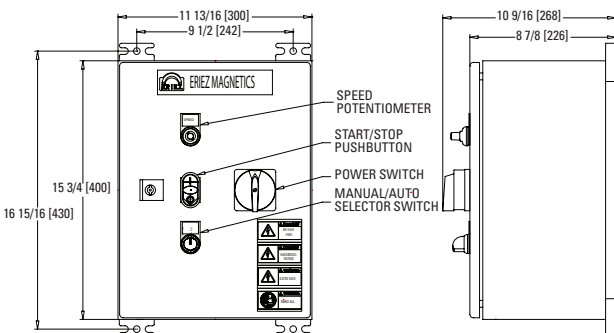
A Model  
C Model  
HS Model

Large Electromagnetic Feeders

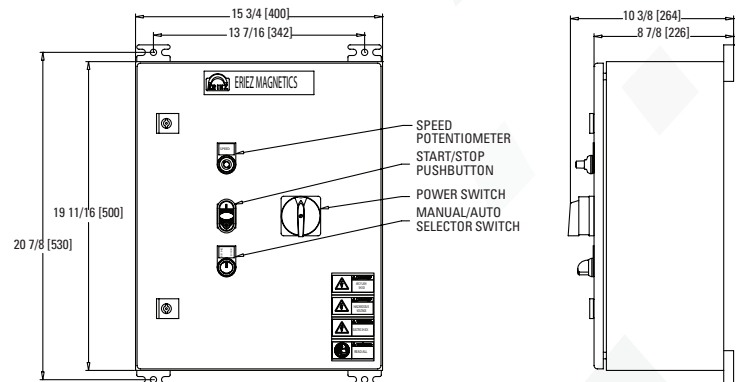
B Model



◀ Accelerometer used with G-Series and UniCon HC Controls



NEMA 4 UniCon HC 5-25 Amp Models



NEMA 4 UniCon HC 30-40 Amp Models

Dimensions are in inches [mm]

# G-Series Controls

Accepts up to 12 amps at full voltage. Controls are capable of auto sensing line voltage without on site programming and can operate at feeders frequencies of 30, 40, 50 or 60 Hz.

The G-Series is equipped with soft-start adjustability which eliminates the feeder over-stroking during start up and shut down and prevents premature wear. For applications requiring rapid on/off cycling, settings can be altered for quicker cycle time.

Controls can be equipped with an accelerometer attached to the feeder. The accelerometer constantly reads the tray amplitude and communicates it to the control thereby preventing premature component wear.

## FEATURES:

- Full range of customized feeder controls
- 115 and 230 volts
- Nema 12 (IP54) enclosure standard
- Accept 4-20 MA signal
- Remote on/off capability
- Dual rate-of-feed available
- Panel mount version
- Closed-Loop operation with accelerometer available to maintain consistent tray deflection
- Standard units are CE tagged
- ESA evaluation and tagging for Canada available
- Digital display
- 12 amp maximum for NEMA 12 version and 15 amp maximum for NEMA 4x and panel mount



Panel mount versions available

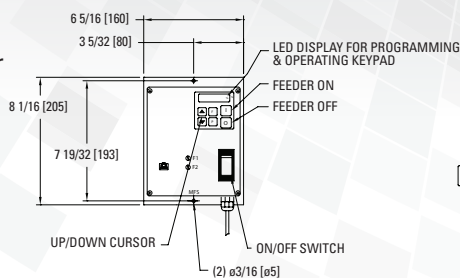
## Recommended for:

**Compact Electromagnetic Feeders / Conveyors**

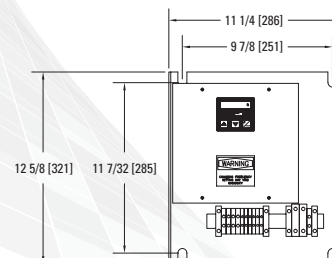
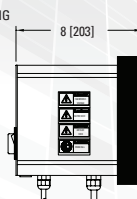
**Large Electromagnetic Feeders**

A Model  
C Model  
H Deflection  
HS Speed  
VMC Conveyor

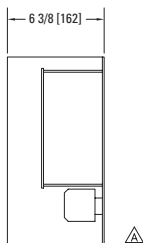
B Model



G Series NEMA 12 (IP54) Control



G Series Panel Mount Control



# Eriez Vibratory Equipment



## COMPACT ELECTROMAGNETIC FEEDERS

Eriez' broad range of compact feeders handle most any dry bulk solid material. The A, C, HS and HD models provide the best vibratory solutions to handle your medium to light duty applications. Whether you have a dense metal powder or a flexible leafy material, Eriez has the vibratory solution.



## ELECTROMAGNETIC AND MECHANICAL CONVEYORS

Eriez versatile vibratory conveyors move and distribute bulk material across many processing environments. Conveyors are available with dust covers, base or suspension mounting, sanitary construction and many other features.



## HEAVY DUTY ELECTROMAGNETIC AND MECHANICAL FEEDERS

Our line of heavy duty electromagnetic and mechanical feeders provide the robust design required to handle the toughest applications. When the precise feed control of an electromagnetic feeder is required or the high tonnage capabilities of our HVF mechanical feeder, Eriez can address the most difficult environments with our heavy duty feeder solutions.



## BIN, HOPPER AND CHUTE VIBRATORS

Eriez provides electromagnetic and rotary electric hopper and chute vibrators to help insure your bulk material flows smoothly through your process. Wherever your bulk material hand-up in a hopper or chute, an Eriez vibrator may be the cost effective solution you're looking for.



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