

MIXER CONTROL (REVERSING DRUM)

Part Number: 25627

DESCRIPTION:

The Reversing Drum Mixer control option provides manual, semi-automatic and automatic control for the charging and discharging of a reversing mixer. Mixer control and IO vary, depending on manufacturer and model. Mixer electrical details are required.

OPERATION:

Automatic

Mixer Charging

If the mixer is equipped with a Mixer Charging input, the batching system makes sure the mixer is running in the charge direction before automatically discharging materials into the mixer. Materials are discharged into the mixer based on the sequence configuration.

Mixer Discharge

Once all materials have been discharged into the mixer, and the mix time has elapsed, the mixer discharges (if mixer discharge is set to automatic in the batching system). If Mixer Discharge is set to semi-automatic (triggered), the mixer discharges when the Mixer Discharge button is pressed on the manual station. The mixer continues to discharge when in the automatic or triggered mode until the mixer is empty. Mixer Empty may be a pushbutton on the manual station to be pressed by the operator, or it may be an input from the mixer.

Mixer Charge

Once the Mixer Empty signal is received, the batching system automatically reverses the mixer to the charging direction (if set to automatic). If Mixer Charge is set to semi-automatic (triggered), the mixer changes rotation to the charge direction when the Charge button is pressed on the Manual Station. The mixer continues to run in the charge direction until Mixer Enabled is turned off or the system is put into hold, or Mixer Discharge is turned on.

Manual

Mixer Discharge

If the mixer is enabled, the batching system runs the mixer in the discharge direction when the Discharge button is pressed on the manual station. The mixer continues to run in the discharge direction until Mixer Enable is turned off, or the mixer hold button is pressed, or the Mixer Charge button is pressed.

Mixer Charge

If the mixer is enabled, the batching system runs the mixer in the charge direction when the Charge button is pressed on the manual station. The mixer continues to run in the charge direction until Mixer Enable is turned off, or the mixer hold button is pressed, or the Mixer Discharge button is pressed.

SYSTEM REQUIREMENTS:

- Mixer Enable - an unassigned pushbutton on the Manual Station
- Mixer Fault - an unassigned LED or pushbutton on the Manual
- Mixer Discharge - an unassigned pushbutton on the Manual Station
- Mixer Charge - an unassigned pushbutton on the Manual Station
- Mixer Complete - an unassigned LED or pushbutton on the Manual Station
- Mixer Charging - an unassigned LED or pushbutton on the Manual Station
- Mixer Discharging - an unassigned LED or pushbutton on the Manual Station
- Mixer Hold - an unassigned pushbutton on the Manual Station
- Mixer Empty – an unassigned pushbutton on the Manual Station.

IMPLEMENTATION:

- Install the Opto module(s) in the correct slot(s) in the J-Box.
- Configure the Manual Station pushbuttons.
- Set up the mixer in the batching system software. Map the appropriate devices to the mixer, and configure sequences.

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