

MIXER CONTROL (ERIE)

Part Number: 23851

DESCRIPTION:

The Erie Mixer control option provides manual, semi-automatic and automatic control for the tilt, tilt cushion, right, and right cushion functions of an Erie Mixer. Mixer control and IO vary depending on model. Mixer electrical details are required.

OPERATION:

Automatic

Mixer Charging

If a mixer running input is assigned on the Mixers form, the system makes sure the mixer is running before automatically discharging materials into the mixer. The mixer right/closed limit must be on before materials can be discharged into the mixer. Materials are discharged into the mixer based on the sequence configuration.

Mixer Tilt

Once all materials have been discharged into the mixer, and the mix time has elapsed, the mixer tilts (if tilt is set to automatic in the batching system). If mixer tilt is set to semi-automatic (triggered) mode, the mixer tilts when the tilt button is pressed on the Manual Station. The mixer continues to tilt when in automatic or triggered mode based on the software's mixer discharge parameters until the tilt limit is reached or the mixer is put into hold (via another button on the manual station). The mixer tilt cushion output is turned on when the mixer is tilting.

Mixer Right

Once the discharge time has expired, the system automatically rights the mixer (if right is set to automatic). If mixer right is set to semi-automatic (triggered), the mixer rights when the right button is pressed on the Manual Station. The mixer continues to right until the mixer 10% limit is reached when in the automatic or triggered mode, or the mixer is put into hold. The right cushion output is turned on when the mixer is righting until the right limit is reached, or the mixer is put into hold when in the automatic or triggered mode.

Manual

Mixer/Hydraulic Motors

The mixer and hydraulic motors must be manually started (no standard automatic operation) by pressing the appropriate start buttons.

Tilt

If the mixer tilt mode is set to manual, and the mixer is ready to discharge, the mixer tilt button must be pressed until the tilt limit is reached. (The mixer will tilt when the mixer tilt button is pressed even if the mixer is "not ready" to discharge.) The mixer tilt cushion output is turned on when the mixer is tilting.

Right

If the mixer right is set to manual, and the mixer has discharged, the mixer right button must be pressed until the right limit is reached. (The mixer will right when the mixer right button is pressed even if the mixer has not been discharged.) The right cushion output is turned on when the mixer is righting. (The right output will turn off when the 10% limit is reached. The right cushion will turn off when the right limit is reached.)

SYSTEM REQUIREMENTS:

- Mixer Start - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Mixer Stop - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Hyd Start - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Hyd Stop - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Mixer Tilt Limit - an unassigned LED or pushbutton on the Manual Station
- Mixer Tilt - an unassigned pushbutton on the Manual Station
- Mixer Right - an unassigned pushbutton on the Manual Station
- Mixer Right Limit - an unassigned LED or pushbutton on the Manual Station
- Mixer Hold - an unassigned pushbutton on the Manual Station
- Mixer 10% Limit - an unassigned LED or pushbutton on the Manual Station
- Mixer Right Cushion - an unassigned location on the Manual Station
- Mixer Tilt Cushion - an unassigned location on the Manual Station

IMPLEMENTATION:

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

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