

 **CONVEYING**
FLEXCONTROL
TYPE V

GENERAL

Brand	Cimbria
Designation	Moduflex Flexcontrol
Model	V

Following points must be kept in mind regarding the electrical system for loading chutes type VF - VFF

- The voltage connected to the loading chute must be the same as specified in the wiring diagram, As regards a type VFF-chute 3 phases + a "zero" may be required.
- When no remote control or other type of control is supplied to operate the loading chute, the wire connection must be made according to the wiring diagram.
- The equipment/machines that carry/convey the material to the loading chute must only be running when the potential free signal "start Matr" is connected. The conveying equipment which feeds the loading chute must stop immediately, when this signal no longer is connected. This is a requirement in order to maintain the guarantee and necessary for an unproblematic and reliable operation.

Electrical system - loading chute		
Signal	Main Function	Remarks
Slack wire	Stops further lowering when: a) Outlet rests on product pile b) Loading chute is fully extended	On all 3 hoisting wires Prevents wires from being wound up reversibly
Tight wire	Stops further hoisting when: a) Motor winch is not able to hoist the outlet due to an error b) Loading chute has reached its absolute top position Stops product flow	On all 3 hoisting wires Prevents wires, shaft, motor etc. from being overloaded Prevents overfilling of loading chute
Top stop	Stops hoisting immediately before loading chute reaches its absolute top position (Tight wire signal)	Reduces load on wires, shaft, motor etc.
Brake motor	Hoists and lowers the loading chute	Brake ensures immediate reaction
Indicators in outlet	Gives signal to hoist outlet automatically	Prevents overfilling of loading chute

Electrical system on the filter outlet for the cleaning of filter cartridges:	
Start signal (comes from the loading chute control)	Start the following on each filter unit: The compressor in order to fill the air pressure tank. The compressor runs until there is 4 bar pressure in the tank. The fan which absorbs air through the filter is started. The cleaning cycle on the filters is to be started. The cycle is controlled by a PLC and a timer setting determines how often the filter cartridge is to be cleaned.
Stop signal (comes from the loading chute control)	The fan and compressor stop immediately. The cleaning cycle on the filter will finish.

Notice: The above only describes the main functions of the electrical systems on the loading chute type V. The Cimbria Moduflex control box also includes further features to ensure the best possible result.

If another control box is to be used, it is important to ensure that this too contains all necessary functions and features. For further information please contact Cimbria Moduflex.