

REOVIB MFS 158, 168

Frequency converters in the [REOVIB MFS 158](#) and [REOVIB MFS 168](#) series for vibratory conveyor technology offer the option of operating the vibratory conveyor at an optimal vibration frequency for the material - completely independently of the mains input frequency.

It is also possible with [REOVIB MFS 168](#), thanks to the system patented by REO, to determine the resonant frequency of the vibratory system automatically and to regulate the vibration amplitude accordingly. In addition, various sensor and valve logic links can be programmed.

Devices in the [REOVIB MFS 158](#) series are available with a max. output current of 4 A and the Devices in the [REOVIB MFS 168](#) series are available with a max. output current of 3 A, 6 A and 8 A. Both series are available as IP20 versions for installation in control cabinets or as IP54 standalone units.

The IP54 housings are available with various connection options:

- Input cable/output cable
- Input cable/output socket
- Complete cable connection solution for mains, output and control connections

Advantages

- Inexpensive frequency-control devices with the vital functionality
- Frequency-control device for controlling a vibratory conveyor independently of the mains input frequency
- Conveyor frequencies adjustable between 35...140 Hz
- Mains voltage compensation with constant vibration amplitude
- All settings can be made using the integrated display
- Sinusoidal output current
- Can be used on 110 V or 240 V mains, auto sensing.
- User settings can be stored
- With fill level/overflow control
- Versions available in various protection classes and with various connection options
- [REOVIB MFS 168](#): Automatic detection of the resonant frequency of the vibratory conveyor system (with additional vibration amplitude sensor) and option to regulate the vibration amplitude – Constant feed rates can be achieved independently of load or changes in the mechanical system

REOVIB MFS 158 IP54



REOVIB MFS 158 IP20



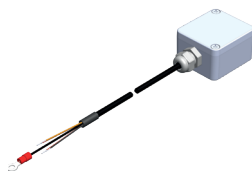
REOVIB MFS 168 IP54



REOVIB MFS 168 IP20



Sensor SW IP65



Technical data

REOVIB MFS		
	MFS 158	MFS 168
Mains input	110 / 230 V Auto Detect	110 / 230 V Auto Detect
Mains frequency	50 / 60 Hz +/- 3 Hz	50 / 60 Hz +/- 3 Hz
Output voltage	0 ... 100 V / 0 ... 205 V	0...100 V / 0...205 V
Output voltage	max. 4 A	max. 3 A / 6 A / 8 A
Vibration frequency	35...140 Hz	30...140 Hz
Setpoint value	Display, Poti, 0 ... 10 V, 0 (4) ... 20 mA	Display, Poti, 0 ... 10 V, 0 (4) ... 20 mA
Status signal	Relay changer 250 V, 1 A	Relay changer 250 V, 1 A
Ext. Enable	24 V DC, Switch	24 V DC, Switch
Sensor supply	24 V DC	24 V DC
Setting U_{min} / U_{max}	Display	Display
Soft start	Adjustable 0...4 Sek.	Adjustable
Fill level/overflow control	PNP, 24 V DC (Option)	PNP, 24 V DC (Option)
Coarse/fine control	✓ (Option)	✓ (Option)
Vibration amplitude regulation	-	✓ (Option)
Resonant frequency search	-	✓ (Option)
Mains voltage compensation	✓	✓
Conformity	CE, RoHS	CE, RoHS
Protection class IP20 / IP54	IP20 / IP54	IP20 / IP54



Our experts suggest the following AC-Magnets: WI 111, WI 121, WI 321, WI 421, WI 621, WI 211, WE 131