

Connections for standard automatic spring feeder

Main power supply:

Speedfeeder: 115/230 VAC Volts + Ground, 50/60Hz, 6 Amps, 1 kW

Bigmatic: 115/230 VAC Volts + Ground, 50/60Hz, 10 Amps, 2 kW

Maximatic: 115/230 VAC Volts + Ground, 50/60Hz, 16 Amps, 4 kW

Compressed air supply:

8 Bar (connector R1/4"). Machine regulator set to 6 Bar. 100 – 500 l/min.

Signal interface to line:

Harting 6-p HAN Female connector, Male cable connector included in delivery.

Pin no.	Description	Function
1	Internal +24 VDC	For External Start signal
2	Internal 0 V	For Sensor start option
3	External Start signal	Close circuit with secondary relay side. 1-3
4	External +24 VDC in	For Error and Ready
5	Error output (+24 VDC)	+24 VDC when machine fault
6	Ready output (+24 VDC)	+24 VDC spring ready for delivery
PE	Ground	Ground

With escapment option

READY: High when system is ready to deliver one spring, low during spring feeding.

If an escapment is attached, the lower queue sensor must be active.

Connect 24 VDC to pin no. 4. Signal will be on pin no. 6.

ERROR: Normally low, high when alarm or fault or E-stop occurs.

Connect 24 VDC to pin no. 4. Signal will be on pin no. 5.

START: Deliver one spring if a >50 ms signal is given, if READY is high and ERROR is low. When a circuit is closed between pin 1 and pin 3, one spring is delivered from the escapment.

With queue sensor option:

An inductive queue sensor is delivered with the machine if the queue sensor option is ordered.

The queue sensor is connected to pins 1, 2 and 3.

When the delivery tube is filled up and the sensor is activated the feeder stops, when the sensor is deactivated the feeder automatically starts and runs until the sensor is activated again.

Without options:

The feeder will run, and deliver springs, as long as the start is active.