

The control box is used to operate any SoftGripper, End of Arm Tooling or Suction Cup. On the front, the current pressure can be seen in the pressure indicator and adjusted via knob. On the backside of the device you can find the pressure input and two outputs (e.g. Fingers & Suction Cup). The outputs are controlling the position of the fingers. You can switch between 3 positions: Grip, Release and Relaxed setting the according Signal Connector’s pins to high. Setting both, the “Finger Release” and “Finger Grip”, respectively pins 1 & 3 to low results in the Relaxed position. The Suction Cup has two states. When pin 5 is set to high, the Suction Cup is activated, setting pin 5 to low results in a release.

### SoftGripper Control Box Specifications

Input Air Pressure Connection	1 x 6 mm outside Ø
Output Pressure Connector	2 x 4 mm outside Ø
Input Pressure	4 to 7 bar
Cycles per Minute	80
Output Pressure	- 0.75 to 2.5 bar
Signal Connector	M12 connector IEC 61076-2-101 8 Pins male
Digital Signal Input	3x 21.6 - 26.4 V DC
Compatible Software	Soft-Gripping UR-Caps
Compatible Hardware	Soft-Gripping Fingers & Suction Cups

Pressure Indicator

Pressure Regulator



**Input Pressure**

Tubing: outside diameter 6 mm  
Pressure range: 4 to 7 bar

**Finger Output**

4 mm outside Ø  
- 0.75 to 2.5 bar

**Signal Connector**

M12 connector IEC 61076-2-101  
Coding: A  
Digital Signal input: 21.6 to 26.4 V DC



**Suction Cup Output**

4 mm outside Ø  
- 0.75 to 0 bar

Pin Assignment

Pin	Function	Color
1	Finger Release	White
2	GND	Brown
3	Finger Grip	Green
4	NC	Yellow
5	Suction Cup Active	Grey
6	NC	Pink
7	NC	Blue
8	NC	Red

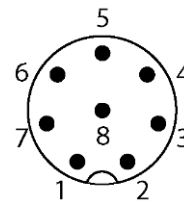


Figure 1: M12 connector male pinout.

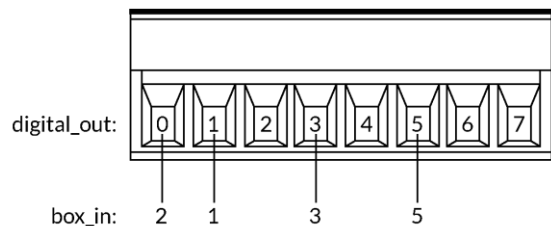


Figure 2: Phoenix connector to box standard configuration pinout.