Power Supply, Sensor and Signal Output
The minimum bending radius of the PC7400-6/4 and PCS/5-WT power supply and output cables (available as accessories) is ten times the cable diameter. All of the connections for the power supply/sensors/signal output are on the controller.

Connections
- Power supply/output side:
  - Cable gland: WS19; clamping range 4.5 mm ... 10 mm
  - Screw terminals; AWG 16 up to AWG 24, up to AWG 28 with ferrule
  - Alternatively: Connector M12x1, 5-pole, A-coded
- Sensor side:
  - Cable gland: WS15; clamping range 1 ... 5 mm
  - Screw terminals; AWG 16 up to AWG 24 with ferrule
  - Alternatively: female connector M9; 5-pole, series 712, Co. Binder

Wiring
The housing must be open to connect the sensors and wire the output and power supply cable.

1. Loosen the screws.
2. Pass the sensor and signal cables through the cable glands.
3. Connect the cable to the terminals according to the pin assignment tables.

Terminal block X2
- Pin: 1
- Cable: LDR-CA-LVP-25-Z20-x
- Connector: LDR-x-SA
- Sensor cable: C7210-x

Terminal block X1
- Pin: 1
- Cable: Sensor cable shield
- Connector: M12x1 plug; 5-pole, A-coded

Terminal block X3
- Pin: 1
- Cable: Sensor pin assignment

Pin assignment for power supply and signal
- Pin: 1
- Description: Supply voltage
- Value: 5V

Pin assignment for power supply and signal, 5-pin housing connector
- Pin: 1
- Description: Supply voltage
- Value: 5V

Sensor pin assignment
- Pin: 1
- Description: Secondary
- Value: [ ]

Initial Operation
- Connect the sensor before starting the controller.
- Ensure that the wiring of the sensor connections, signal cable and power supply connections are correct before connecting the controller to the power supply and turning it on.
- Then switch on the power supply.
- Set the controller to its basic setting.
Menu Structure for the MSC7401 Controller

**Adjustment Mode: 2-point Adjustment**

- **Move the measuring object to position X1, and change the output signal U1 with**
- **Flashes orange when the measuring object is in the electrical center of the sensor.**

- **Move the measuring object to position X2, and change the output signal U2 with**
- **Flashes orange when the measuring object is in the electrical center of the sensor.**

**Menu Structure for the MSC7401 Controller, Adjustment Mode: Zero-point Search**

- **LED off**
- **LED green flashing**

1) Position X0 must be > 10 % of the measuring range away from X1.

**Menu Structure for the MSC7401 Controller, Adjustment Mode: Zero-point Search**

- **LED off**
- **LED green flashing**

1) Position X0 must be > 10 % of the measuring range away from X1.

**Legend of the Menu Structure**

- LED orange
- LED red
- LED orange flashing
- LED red flashing
- LED green
- LED off
- SMR Start of measuring range
- MR Midrange
- EMR End of measuring range

Fig. 8 Menu structure for the MSC7401 controller, adjustment mode: 2-point adjustment

Fig. 9 Menu structure for the MSC7401 controller, adjustment mode: Zero-point search

1) Position X0 must be > 10 % of the measuring range away from X1.