

RECHNER SENSORS

Pump In / Pump Out Level Control Kit



What is the kit for?

- This kit is a complete 'pump in' / 'pump out' logic system
- One sensor tells the controller when the bin is empty. One sensor tells the controller when the bin is full.
- The user can choose to pump out when the bin is full or pump in when the bin is empty
- The integrated relay can power a pump or a small motor. Relay is max 250 VAC/30 VAC, 10A.
- Perfect for upgrading existing equipment or for new expansions

Parts Required:

- 2 Sensors: KAS-80-35-A-M32-Y3-NL
- 2 5 Meter Cables: 0.25SQX4C
- 1 Rechner Logic Controller: EGI-RLC-MM

Description:

The Rechner KAS series sensors are ideal for use as level detection devices. The sensors work equally well for liquids, granulates, or powders. When a system is required to replenish a bin or tank when a low level point is reached, a control can be made using 2 sensors and the EGI-RLC-MM power supply logic controller.

Function:

When the system is installed as shown, the pump or conveyor used to fill the tank or bin will be controlled by the relay in the EGI-RLC-MM.

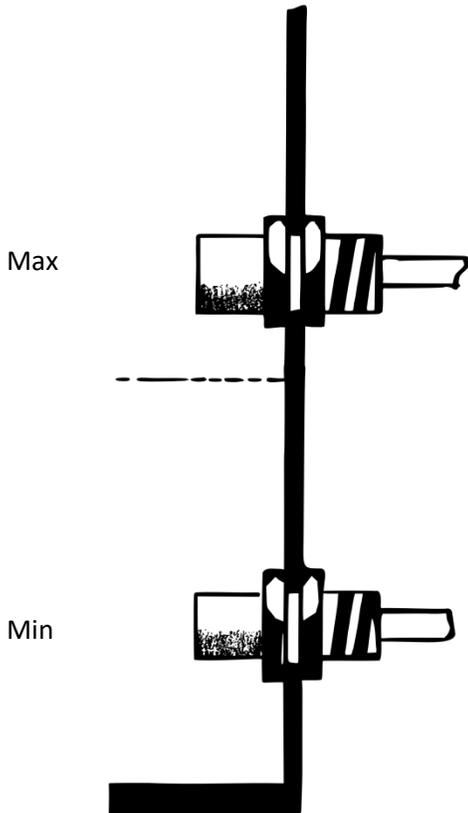
When the level in the tank drops below the min sensor, the relay will energize to start the pump motor. The relay will remain energized until the tank has been filled to the max sensor. At this point, the relay will de-energize and stop the filling process. The relay will remain de-energized until the level drops below the min sensor again. The cycle then repeats to keep the tank filled.

Adjustment:

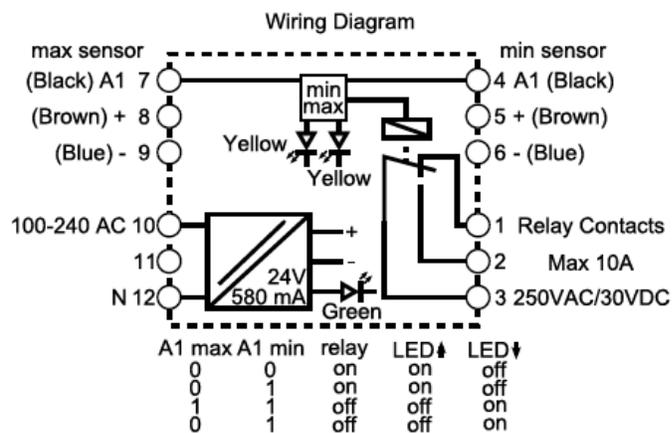
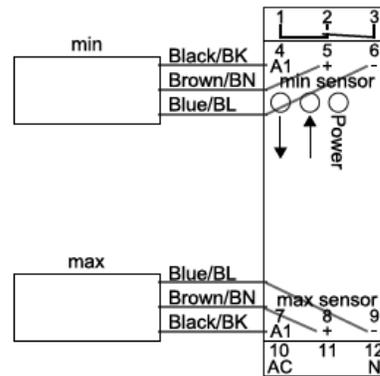
Once the sensors are mounted and connected to the EGI-RLC-MM, each sensor needs to be adjusted as follows:

1. **Locate the sensitivity adjustment potentiometer** on the back of the sensor.
2. **Fully immerse the sensor** into the product to be detected.
3. **Reset the sensor's sensitivity** by turning the potentiometer counter-clockwise 20 full turns, or until the sensor no longer sees the product.
4. **Adjust the sensor** to the product to be detected by turning the potentiometer clockwise until the sensor sees the product.
5. **Add 1/4 turn for safety** by turning the potentiometer a further 90 degrees clockwise.

Wiring Diagrams:



EGI-RLC-MM



For a pump out system:

- Wire your load to the relay terminals 2 and 3

For a pump in system:

- Wire your load to the relay terminals 1 and 3

Upgrade options include:

- Upgrade to High Performance sensors
- Add bypass tube mounting brackets

Important features:

- ETL certifications (UL conforming and CSA certified)
- 13 Watts of extra DC power
- Class 2 power supply for capacitive sensors' certification