

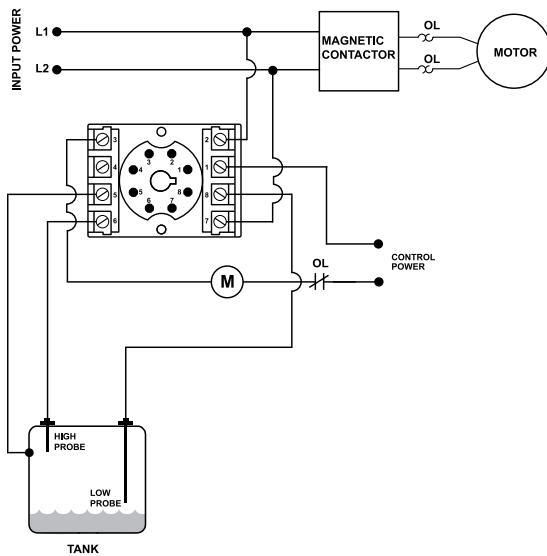
# PC-XXX-LLC-CZ / PC-XXX-LLC-GM SERIES

## Liquid level control

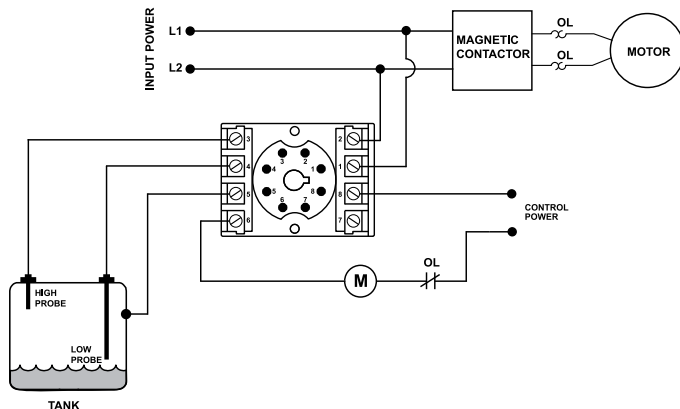


## Wiring Diagram

TYPICAL WIRING DIAGRAM FOR PC-XXX-LLC-CZ



TYPICAL WIRING DIAGRAM FOR PC-XXX-LLC-GM



## Description

The PC-xxx-LLC-CZ and PC-xxx-LLC-GM series are liquid level control relays used to control conductive liquid pumping operations in a pump-up or pump-down application. The units come in two different voltage ranges (see specs below).

The units have an adjustable sensitivity knob (4.7 k to 100 k ohms) that is set according to the resistance level at which you want the probes (sold separately) to sense the conductive liquid. The units have a built-in debounce time delay that prevents the relay from energizing if the probe resistance momentarily goes above or below the sensitivity setpoint (due to liquid splashing in the tank).

The units operate their internal relay based on inputs from a high and low probe and a common reference (when a conductive tank is used) or common probe (when a non-conductive tank is used).

### PC-xxx-LLC-CZ

- Compatible with Crouzet's PNR & PNRU series liquid level control

### PC-xxx-LLC-GM

- Compatible with Gems' Series 16M general purpose control

### Must use Model OT08PC or P1011-6 socket for UL Rating!

Note: Manufacturer's recommended screw terminal torque for the OT Series Octal Sockets is 12 in.-lbs.

## Features & Benefits

| FEATURES                                          | BENEFITS                                                                                        |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Debounce time delay (2 seconds)</b>            | Prevents rapid cycling of the pump due to turbulence in the tank                                |
| <b>Adjustable sensitivity (4.7 to 100 K ohms)</b> | Allows user to fine tune the sensing resistance to prevent false tripping due to foam or debris |
| <b>Dual probe design (plus a common)</b>          | Allows user the ability to set the level differential required                                  |

## Ordering Information

| MODEL         | LINE VOLTAGE | DESCRIPTION                                                      |
|---------------|--------------|------------------------------------------------------------------|
| PC-100-LLC-CZ | 95-120 V ac  | Compatible with Crouzet's PNR & PNRU series liquid level control |
| PC-200-LLC-CZ | 190-240 V ac | Compatible with Crouzet's PNR & PNRU series liquid level control |
| PC-100-LLC-GM | 95-120 V ac  | Compatible with Gems' series 16M liquid level control            |
| PC-200-LLC-GM | 190-240 V ac | Compatible with Gems' series 16M liquid level control            |

## PC-XXX-LLC-CZ / PC-XXX-LLC-GM SERIES

### Accessories



#### **OT08PC 8-pin Octal Socket**

Octal Socket for plug-in units. 8-pin surface & DIN-rail mountable. Rated for 10 A @ 600 V ac.

### Specifications

#### Input Characteristics

##### Supply Voltage

**PC-100-LLC-CZ** 95-120 V ac

**PC-100-LLC-GM** 95-120 V ac

**PC-200-LLC-CZ** 190-240 V ac

**PC-200-LLC-GM** 190-240 V ac

**Frequency** 50/60 Hz

#### Functional Characteristics

**Probe Sense Voltage** 5 V dc pulsed

**Debounce Time Delay** 2 seconds

**Probe Sensitivity** 4.7 k to 100 k adjustable

#### Output Characteristics

##### Output Contact Rating

**Pilot Duty** 480 VA @ 240 V ac

**General Purpose** 10 A @ 240 V ac

#### General Characteristics

**Temperature Range** -40 °C to 70 °C (-40 °F to 158 °F)

**Maximum Input Power** 5 W

#### Standards Passed

**Electrostatic Discharge (ESD)** IEC 61000-4-2, Level 3, 6 kV contact, 8 kV air.

**Radio Frequency Immunity (RFI)** 150 MHz, 10 V/m

**Fast Transients** IEC 61000-4-4, Level 3, 2 kV input power and controls

#### Safety Marks

##### UL (OT08PC octal

**socket required)**

UL 508 (File #E68520)

##### CE

IEC60947-6-2

##### Dimensions

**H** 44.45 mm (1.75"); **W** 60.33 mm (2.375");

**D** 104.78 mm (4.125")

##### Weight

0.65 lb. (10.4 oz., 294.84 g)

##### Mounting Method

DIN rail or surface mount

(plug into OT08PC socket)

##### Socket Available

Model OT08PC (UL Rating 600 V)

The 600 V socket can be surface mounted or installed on DIN Rail.