OI_LST400_Terminals Description
- with Wiring Suggestions

**Terminal Connections**

DIP Switch (SW1 & SW2)

**DIP SW1:**
- AC Power Source (220VAC/110VAC): SW1 CH1&2 OFF;
- DC Power Source (24VDC): SW1 CH1&2 ON;

**DIP SW2:**
- Active Current Output Mode (do not need external power supply): SW2 CH 1&2 ON, CH3 OFF;
- Passive Current Output Mode: SW2 CH 1&2 OFF, CH3 ON (need external power supply);

**Power supply (PWR Supply)**

**Note:** Do not connect more than one power supplies at the same time.
- LST40O can be powered by 220VAC, 110VAC or 24VDC. Follow below connections for different powers.

**220VAC Connection:**
- Connect ‘220V’ Terminal with LIVE, connect ‘N’ Terminal with NEUTRAL and connect ‘PE’ Terminal with Earth.

**110VAC Connection:**
- Connect ‘110V’ Terminal with LIVE, connect ‘N’ Terminal with NEUTRAL and connect ‘PE’ Terminal with Earth.

**24VDC Connection:**
- Connect ‘24VDC +/-’ Terminals with 24V DC, connect ‘PE’ Terminal with Earth.
Active/ Passive Current Output Mode (4-20mA, including HART Communication)

Active Mode:

Passive Mode:

Note: If SW2 is set as Passive Mode, the polarity is opposite as shown in figure above.

Relays (Relay Output)
- Max. 5 relays can be set for LST40O (Relay 1-5)
- Type: 1 Form C (Changeover)  
- Rating: 12A@250VAC;
- Functions: pump control output, alarms, etc.

Transducer (Transducer)
- Connect 'BLACK' with the black wire, which is for temperature signal.
- Connect 'SHIELD' with shield, which is for common ground of both signal wires.
- Connect 'BLUE' with blue wire, which is for measurement signal.

Fuses (F1 & F2)
- Fuses can only be replaced by a trained electrical technician if broken.
- Fuse specifications:  
  F1: 250VAC 50mA time lag
  F2: 250VAC 80mA time lag

Note: If SW2 is set as Passive Mode, the polarity is opposite as shown in figure above.