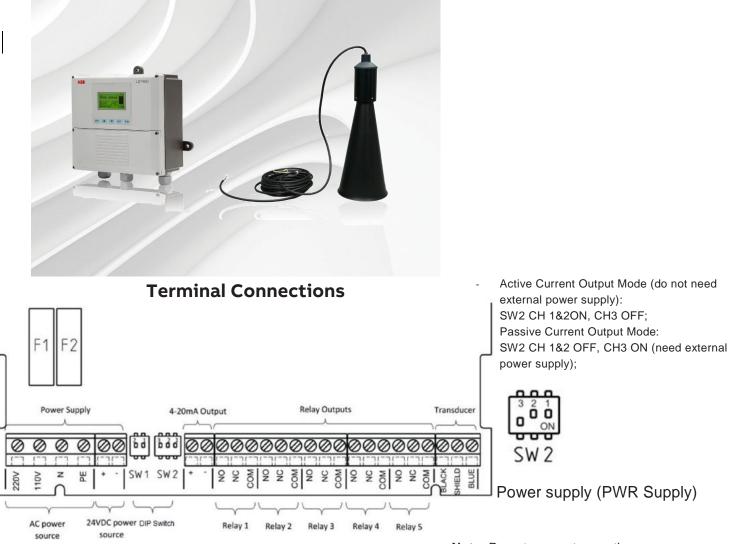
# ABB MEASUREMENT & ANALYTICS | DOCUMENT TYPE

# OI\_LST400\_Terminals Description - with Wiring Suggestions



# DIP Switch (SW1 & SW2)

#### DIP SW1:

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



**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.

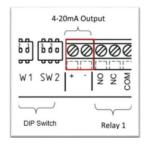
#### 110VAC Connection:

Connect '110V' Terminal with LIVE, connect 'N' Terminal with NEUTRAL and connect 'PE' Terminal with Earth.

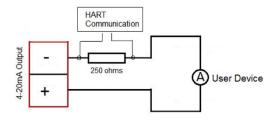
#### 24VDC Connection:

 Connect '24VDC + / -' Terminals with 24V DC, connect 'PE' Terminal with Earth.

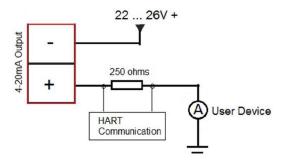
# Active/ Passi`ve Current Output Mode (4-20mA, including HART Communication)



#### 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 LST400 (Relay 1-5)
- Type: 1 Form C (Changeover)
- Rating: 12A@250VAC;
- Functions: pump control output, alarms, etc.

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

#### ABB Limited Measurement & Analytics No.4528, Kangxin Highway, Pudong New District, Shanghai Tel: +86 10 64231407 Fax: +86 10 64371913

#### abb.com/measurement

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# 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