

## HZ-AV-D1系列交流电压变送器

### (HZ-AV-D1 Series AC voltage isolation transducer)

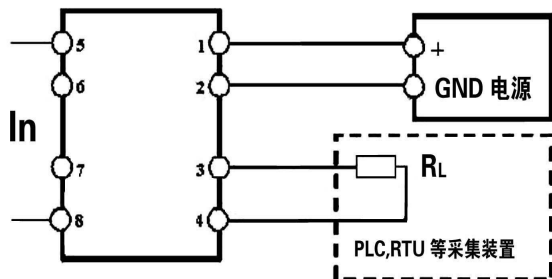
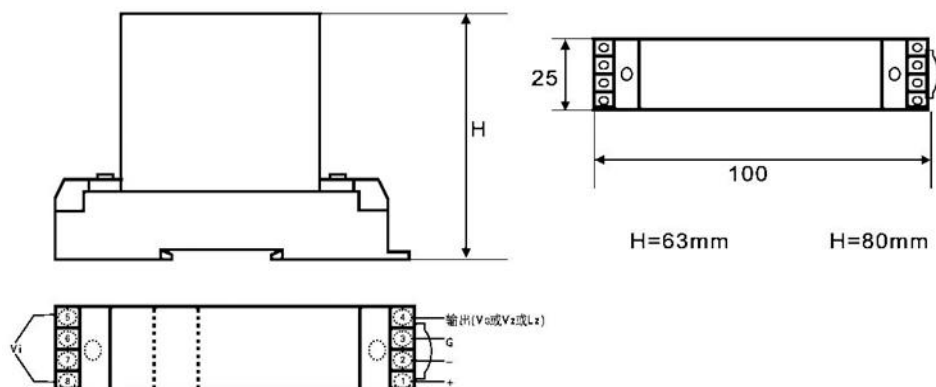
HZ-AV-D1 系列交流电压变送器的初、次级之间是绝缘的，可用于测量交流电压。

(HZ-AV-D1 Series AC voltage transducer between primary and secondary is insulated, can be used for the measurement of AC voltage)

| 电气参数 (Electrical characteristics) |                                         |                     |             |             |             |       |
|-----------------------------------|-----------------------------------------|---------------------|-------------|-------------|-------------|-------|
|                                   | 型号 Type                                 | HZ30-AV-D1          | HZ100-AV-D1 | HZ300-AV-D1 | HZ500-AV-D1 |       |
| V <sub>pn</sub>                   | 额定输入电压<br>(AC)<br>Rated input           | 30                  | 100         | 300         | 500         | V     |
| V <sub>pm</sub>                   | 测量电压范围<br>(AC)<br>Measuring range       | 36                  | 120         | 360         | 600         | V     |
| R <sub>m</sub>                    | 测量电阻<br>Measuring resistance            | 0~500               |             |             |             | Ω     |
| I <sub>out</sub>                  | 输出电流<br>Rated output current            | 4~20 (0~5V 可选)      |             |             |             | mA    |
| I <sub>o</sub>                    | 零电流失调<br>Zero offset current            | $<4 \pm 0.1$        |             |             |             | mA    |
| V <sub>c</sub>                    | 供电电压<br>Supply voltage                  | $+24 \pm 5\%$       |             |             |             | V     |
| I <sub>c</sub>                    | 静态功耗<br>Current consumption             | $\leq 30 + I_{out}$ |             |             |             | mA    |
| I <sub>ot</sub>                   | 零点温漂<br>Thermal drift of I <sub>o</sub> | $\leq \pm 0.005$    |             |             |             | mA/°C |
| F                                 | 带宽<br>Frequency bandwidth (-3 dB)       | 20~3000             |             |             |             | Hz    |
| ε <sub>G</sub>                    | 精度<br>Accuracy                          | 0.5                 |             |             |             | %     |
| ε <sub>L</sub>                    | 线性度<br>Linearity                        | 0.1                 |             |             |             | %     |

|    |                                       |                                          |    |
|----|---------------------------------------|------------------------------------------|----|
| Tr | 响应时间<br>Response time                 | $\leq 200$                               | mS |
| Vd | 绝缘电压<br>Insulation voltage            | 1.5                                      | KV |
| Ta | 工作温度<br>Ambient operating temperature | -10~+60                                  | ℃  |
| Ts | 储存温度<br>Ambient storage temperature   | -25~+70                                  | ℃  |
| M  | 重量 mass                               | 110                                      | g  |
|    | 标准<br>Standards                       | GB/T 13850-1998\IEC688:1992\UL94-Vo\ROHS |    |

#### 机械参数 Dimensions (mm)

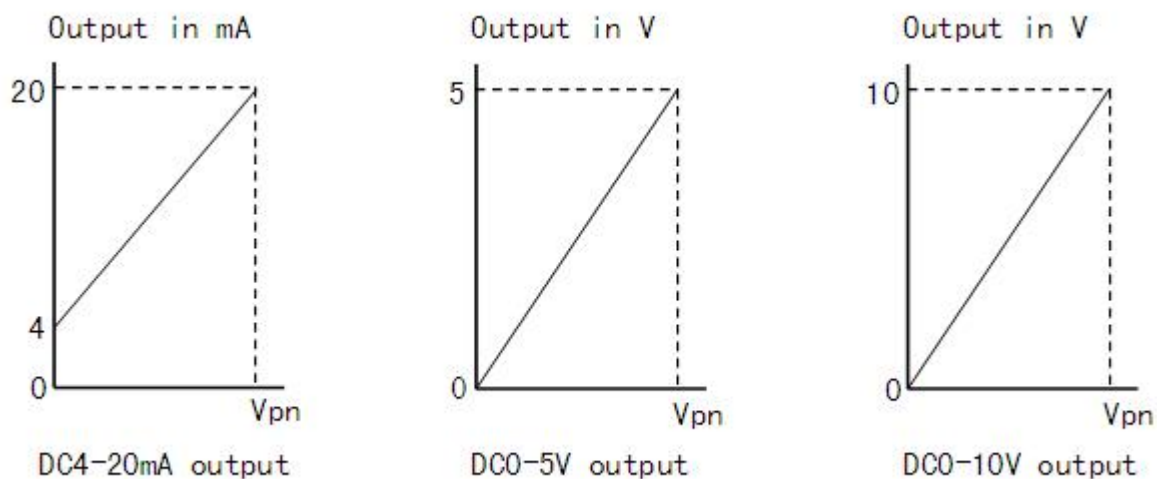


| 端子 | 接线    |
|----|-------|
| 1  | 电源+   |
| 2  | 电源地 G |
| 3  | 输出地 G |
| 4  | 输出+   |
| 5  | 输入+   |
| 6  | 空     |
| 7  | 空     |
| 8  | 输入—   |

端子标准: 3.52mm, 8pin 接线式连接器

## 线性关系 (Linear)

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## 使用说明 Remarks

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### 1、产品命名: HZ\*\*-AV-P\*0\*D1

(Product name: HZ \*\*-AV-P \* 0 \* D1)

HZ 代表品牌 \*\*代表输入电压

(HZ : brand ; \*\*: input voltage)

AV: 测量交流电压

(AV: Measuring AC voltage)

P\*代表电源: P1: +12~15V; P2: +24V; P3: AC220V; P4: 自定义

(P\* : power supply; P1: +12 ~ 15V.; P2: +24 V; P3: AC220V; P4: customize)

0\*代表输出: 01: 0~5V; 02: 0~20mA; 03: 4~20mA; 04: 自定义

(0\* : output; 01: 0 ~ 5V; 02: 0 ~ 20mA; 03: 4 ~ 20mA; 04: customize)

D1 代表 35mm 导轨安装方式外壳

(D1: 35mm DIN Installation method)

### 2、传感器的输出幅度可根据用户需要进行适当调节

(The amplitude of the output of the transducer can be appropriately adjusted according to user needs.)

### 3、可按用户需求定制不同额定输入电压和输出的传感器

(Custom different rated input voltage and the output voltage of the transducer)

### 4、电压输出型负载 $\geq 10K\Omega$ ，电流输出型 $\leq 500\Omega$

(The voltage output load  $\geq 10K\Omega$ , current output type  $\leq 500\Omega$ )