



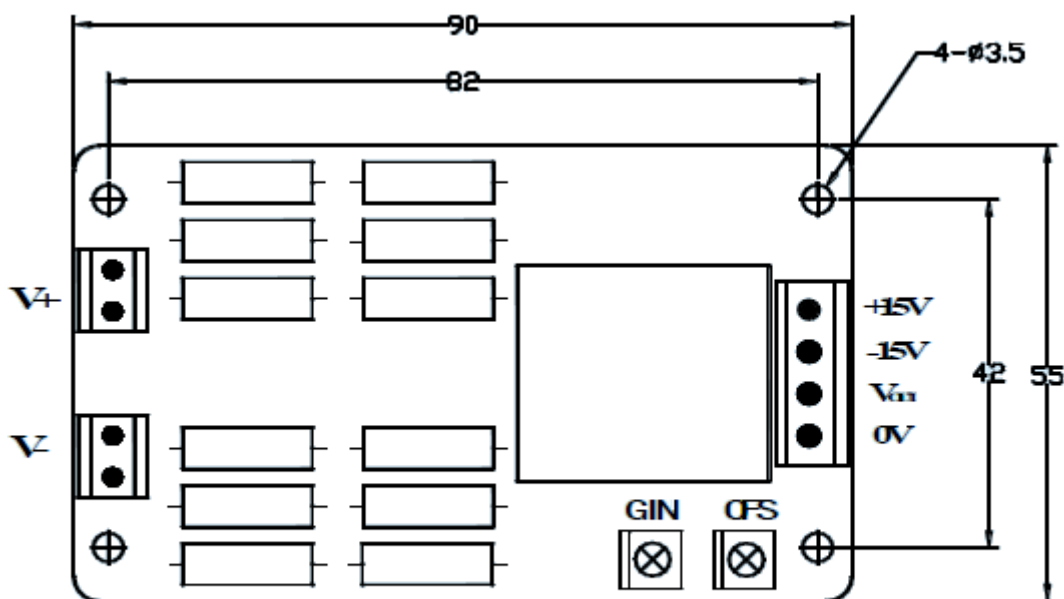
Closed loop voltage sensor based on the principle of Hall-Effect.

It can be used for measuring alternating, direct, pulsed and mixed voltage

#### Electrical characteristics

|              | Type                               | ASC500X-DP                                           | ASC800X-DP | ASC1000X-DP | ASC1200X-DP |       |
|--------------|------------------------------------|------------------------------------------------------|------------|-------------|-------------|-------|
| $V_{PN}$     | Primary nominal input voltage      | 500                                                  | 800        | 1000        | 1200        | V     |
| $V_P$        | Measuring range of primary voltage | 0 ~ ±750                                             | 0 ~ ±1200  | 0 ~ ±1500   | 0 ~ ±1500   | V     |
| $V_{OUT}$    | Nominal output voltage             | 5(±1%)                                               |            |             |             | V     |
| $V_C$        | Supply voltage                     | ±15(±5%)                                             |            |             |             | V     |
| $I_C$        | Current consumption                | $V_C = \pm 15V$                                      | <30        |             |             | mA    |
| $V_D$        | Insulation voltage                 | AC/50Hz/1min                                         |            |             | 3           | kV    |
| $\epsilon_L$ | Linearity                          | <0.5                                                 |            |             |             | %FS   |
| $V_0$        | Offset voltage                     | $T_A = 25^\circ C$                                   | <±25       |             |             | mV    |
| $V_{OT}$     | Thermal drift of $V_0$             | $I_{PN}=0$ $T_A = -25 \sim +85^\circ C$              | <±1        |             |             | mV/°C |
| $T_R$        | Response Time                      | 90% of $V_{PN}$                                      |            |             | <100        | µs    |
| $T_A$        | Ambient operating Temperature      | -25~+85                                              |            |             |             | °C    |
| $T_S$        | Ambient storage Temperature        | -40~+100                                             |            |             |             | °C    |
|              | Special Range                      | Other intermediate input ranges available on request |            |             |             |       |

#### Dimensions of drawing (mm)



Termination Details: OFS:Zero adjustment GIN: Gain adjustment

#### Remarks

- Incorrect connection may lead to the damage of the sensor.
- $V_{OUT}$  is positive when the  $V_P$  according to the top diagram.

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