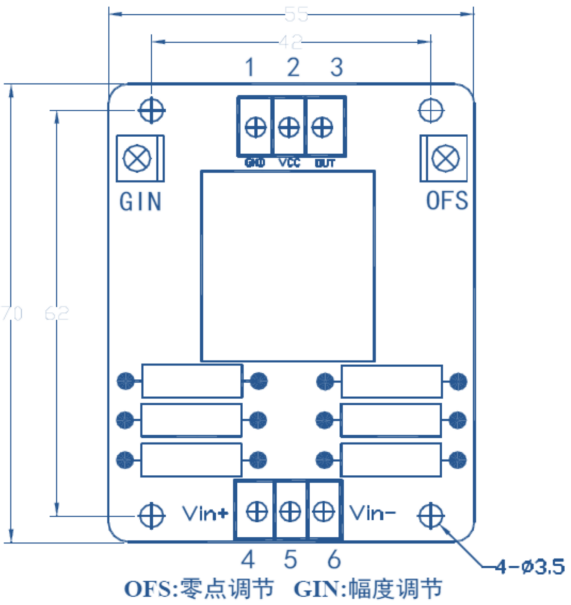
# VSM800DAT Closed loop hall effect voltage sensor

Applying the closed-loop principle of the Hall effect, the voltage transmitter can measure AC signal voltage under electrical isolation conditions, with the output being a 4-20mA DC current output proportional to the effective value of the measured voltage

| Electric spec | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Part No. | VSM100DAT | VSM220DAT | VSM380DAT | VSM500DAT | VSM800DAT | |
| $V_{PN}$ | Rated primary voltage | 100(AC) | 220(AC) | 380(AC) | 500(AC) | 800(AC) | V(rms) |
| $V_P$ | Measuring range | 0～150% | | | | | |
| $I_{OUT}$ | Rated output current | 20±1%(DC) | | | | | mA |
| $I_0$ | Zero offset current | 4(DC) | | | | | mA |
| $R_M$ | Measuring resistor | 54～580 | | | | | Ω |
| $V_C$ | Power supply | +24(±5%) | | | | | V |
| $V_d$ | Dielectric strength | Pri-Sec: AC2.5kVRms/50Hz/60s | | | | | |
| $\varepsilon_L$ | Linearity | <0.2 | | | | | %FS |
| X | Accuracy | $T_A$=25℃ | | ±0.8 | | | % |
| $I_{OT}$ | Thermal drift Zero offset current | $V_P$=0 $T_A$=-25～+85℃ | | <±0.005 | | | mA/℃ |
| Tr | Response time | <20 | | | | | ms |
| $T_A$ | Operating temperature | -25～+85 | | | | | ℃ |
| $T_S$ | Storage temperature | -40～+100 | | | | | ℃ |
| m | Weight(about) | 42 | | | | | g |
| | Standard | Q/320115QHKJ01-2013 | | | | | |

Dimensions（mm）




Circuit diagram


Use instructions

1.Incorrect wiring of the sensor may result in module damage. Once the sensor is powered, the voltage to be measured is connected to the input terminal of the sensor, and the corresponding current value can be measured at the output terminal.
2.Sensors with voltage output can be selected according to user requirements.
3.The output range of the sensor can be adjusted appropriately based on user needs.