Current Sensor CT1000C-S/SP2

The CT1000C-S/SP2 utilizes imported high-performance Hall elements and operates based on the principle of magnetic compensation to provide electrically isolated measurements of DC, AC, or pulsed current. The output signal is proportional to the measured current, ensuring excellent accuracy, linearity, and stability.

Parameters

Electrical Specifications

- Rated Measurement Current：1000Arms
- Measurement Range：0～±2400A
- Turns Ratio：1:5000
- Rated Output Current：200mA
- Supply Voltage：±15×(1±5%)V～±24×(1±5%)V
- Secondary Current Consumption：30mA(@±24V)+ output measurement current
- Dielectric Strength：13.4kVrms/50Hz/1min (between primary and secondary circuits)
- Load Resistance：≤7Ω@±24×(1±5%)V (max measured current: 2000 A)
  ≤8Ω@±15×(1±5%)V (max measured current: 1200 A)

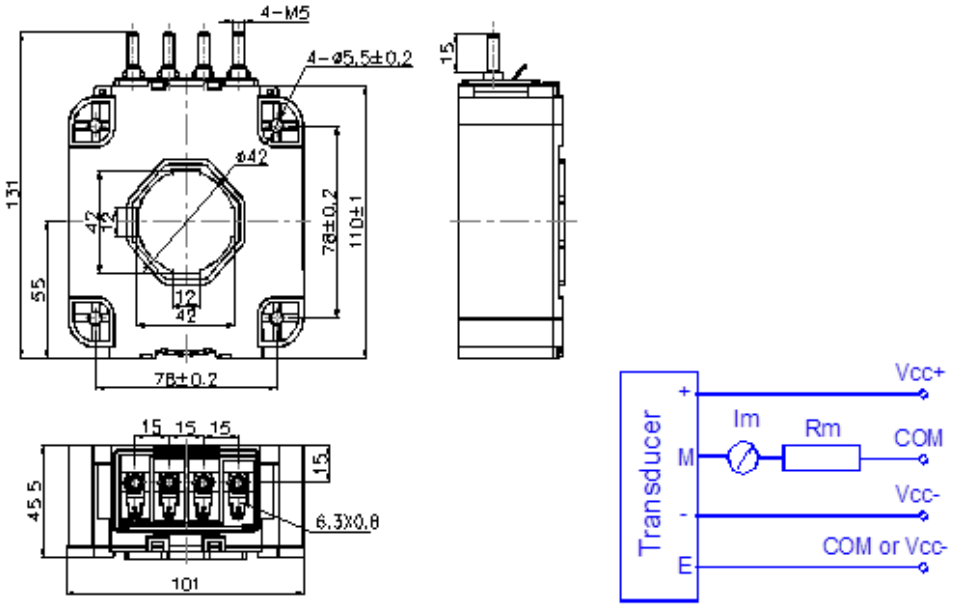
Accuracy & Dynamic Performance

- Accuracy：±0.8%
- Non-Linearity：±0.1%
- Zero Offset：≤±0.4mA
- Response Time：≤1μs
- di/dt：＞50A/1μs

General Data

- Operating Temperature：-40℃ ~ +85℃
- Storage Temperature：-45℃ ~ +90℃
- Weight：≤550g

Outline & Interface



Notes

- The output current is positive when the direction of the measured current matches the arrow mark on the product housing, Otherwise, the output is negative.