XC ELECTRONICS

Current Sensor CF305-S

CF305-S adopts high-quality imported Hall components and utilizes the magnetic compensation principle to perform galvanic isolation measurement of DC, AC, or pulsed currents. The output current is proportional to the measured current, offering excellent accuracy, linearity, and stability.

Parameters

Electrical Specifications

- Rated Measurement Current：300Arms
- Overload Capacity：±500A 3min max
- Turns Ratio：1:2000
- Rated Output Current：150mA
- Supply Voltage：±12~±20V
- Secondary Current Consumption：26mA(@±20V) + output measurement current
- Dielectric Strength：3.8kVrms/50Hz/1min (between primary and secondary circuits)
- Load Resistance：≤45Ω at ±20 V (max measurement current 500 A)
  ≤12Ω at ±12 V (max measurement current 500 A)

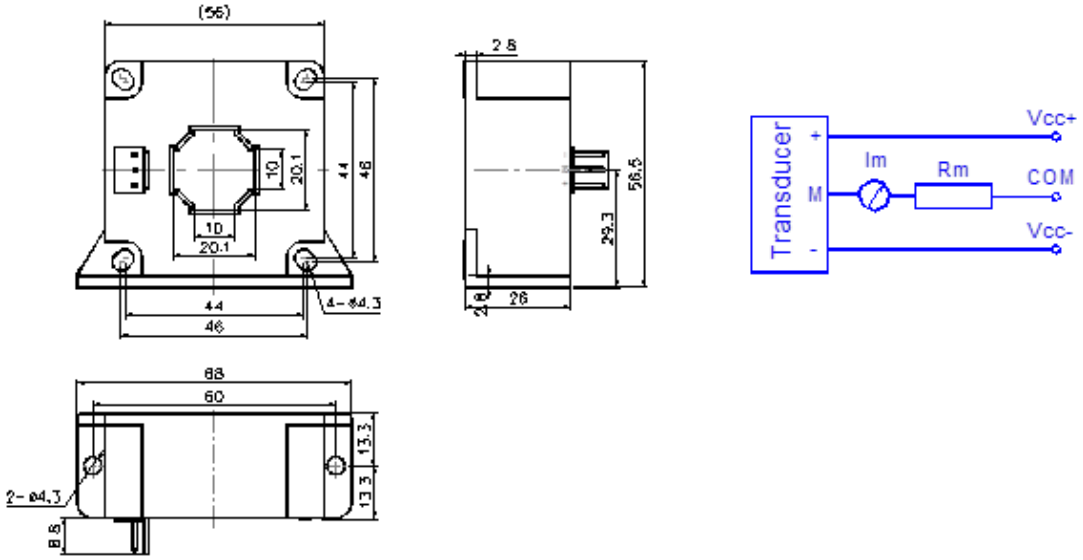
Accuracy & Dynamic Performance

- Accuracy：±0.5%
- Non-Linearity：±0.1%
- Zero Offset：≤±0.2mA
- Response Time：≤1μs
- di/dt：>50A/1μs

General Data

- Operating Temperature：-40℃ ~ +85℃
- Storage Temperature：-45℃ ~ +90℃
- Weight：≤95g

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.