

SPLIT-CORE CURRENT TRANSDUCER

JC16FXXX-RMS



The Split-core Current Transducer, RMS Series, is designed for energy management, with a convenient connection to electronic submeter. It may also be applied for current measurement in a system of distributed power line carriers (PLCs) or remote controls such as SCADA software for automation and supervision. Other applications include security and condition monitoring, load monitoring, in protection systems, and for predictive maintenance of conveyers, pumps or HVAC motors.

APPLICATIONS

- HVAC & Pumps
- Refrigeration
- Small Industrial Motors
- Fans
- Lighting

BENEFITS

- Small-size, light-weight
- Simple Installation
- Over-Voltage protection circuit is installed.

FEATURES

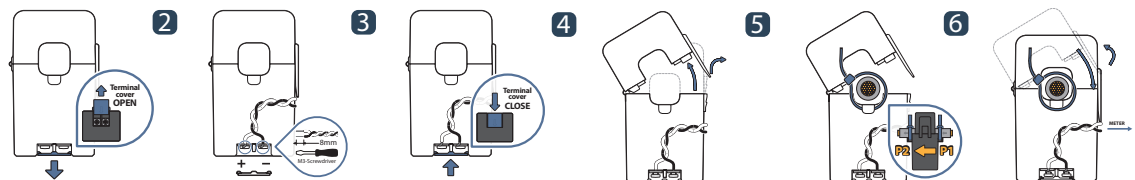
- Nylon-spring, output-terminal, secure locking hinge, one-touch structure make it easy to install to the existent equipments such as a power distribution boards.
- Isolated plastic case recognized according to UL94-V0
- UL/EN 61010-1 certified
- Customizing output lead wire



NOTICE

- If you impact the core contact surface, internal core material could be damaged.
- Please use only the original output screws. Not recommended to replace it with anything else.
- Clean the contact surface and make sure to remove all debris on the contact parts.
- Be careful of damaging or breaking the core.

HOW TO USE 1

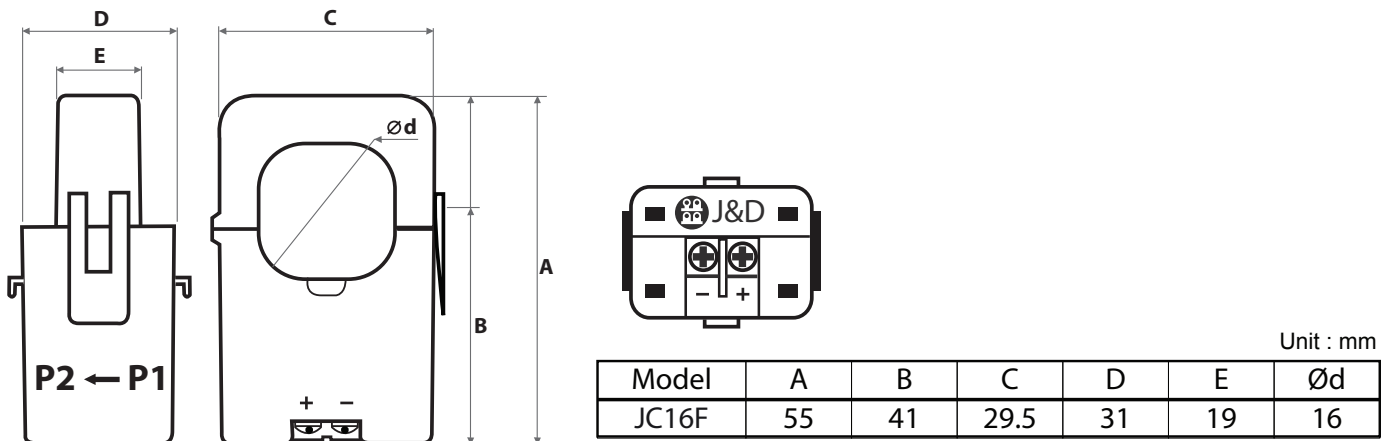


SPECIFICATION

(F=50/60Hz)

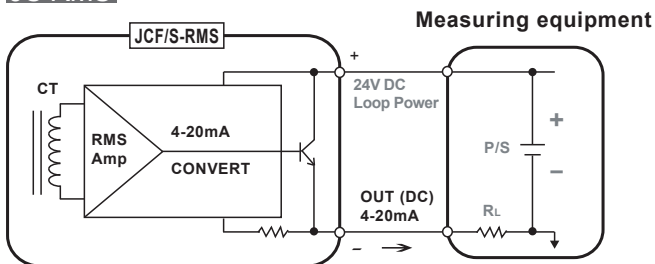
Model	JC16FXXX-RMS / Ø16
Rated Current (A)	5, 10, 20, 25, 50, 100
Max. Allowable Current	120%(Continuous)/ 150%(1 min.)
Output	4-20mA DC (RMS)/0-Rated Current (Load resistance: < 600Ω at P/S: 24V)
Accuracy / Linearity	±2% FS. Dynamic Range 1:100 at 50/60Hz Sinewave
Sensor Supply Voltage	24V DC Loop Power (20-30 V DC(25mA Max.))
Response Time	100ms
Output Ripple Voltage	Within 2% of Output Voltage
Output Terminals	2 x M3-Screw, with Terminals cover
Insulation Category	CAT III
Operating Condition	-20°C~+50°C, <85%RH, No condensation, In-house & Any direction installable
Storage Condition	-30°C~+90°C/ ≤85%RH, No condensation

DIMENSIONS



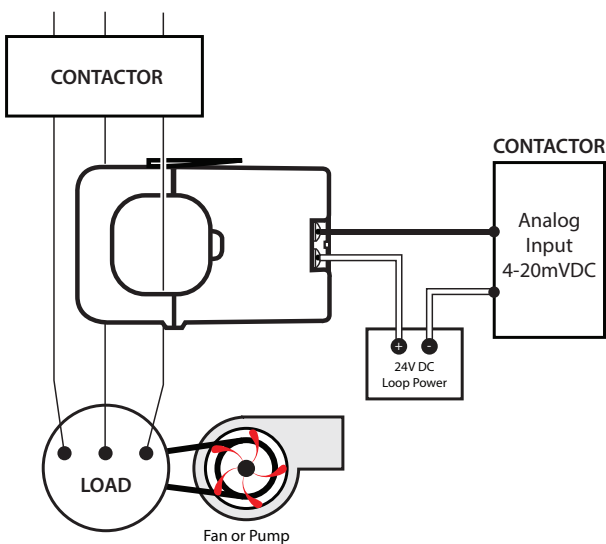
INTERNAL CIRCUIT DRAWINGS

JC RMS



2-Wire Transmission method(Loop powered)
using P/S(+ side) of Measuring equipment

APPLICATIONS



⚡ CAUTION: DANGER ⚠

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- In order to guarantee safe operation of the transducer, please read and understand the instructions thoroughly. For your reference, see NFPA 70E in the USA, or applicable local codes.
- Certain parts of the module may carry hazardous live voltage when the transformers being operated (e.g. primary conductor, power supply).
- This equipment must only be installed and put into operation by qualified electrical personnel or appropriately trained individual.
- Before servicing the CTs, disconnect all sources of power and use a properly rated voltage sensing device to check if the power is off.
- Make sure to install the transducer only on insulated conductors.
- Do not depend on this product for voltage indication
- Use the product in a Pollution Degree 2, A Pollution Degree 2 environment must control conductive pollution and the possibility of condensation or high humidity. Regard the enclosure, thermal properties of the equipment, the proper use of ventilation and the relationship in surroundings.

NOTICE

- This product is not intentionally made for safety applications.
- The installer is responsible for conformance to all applicable codes.
- Ignoring the warnings could result in serious injury and/or cause damages.
- Do not install and use this transducer in hazardous or classified areas.
- If this product is used in a way not specified by the manufacturer, the protection offered by the product may be impaired. No responsibility is taken by J&D Electronics for any consequences arising by not following this material properly.