



CR4731 3-Phase Voltage Transmitter 4-20 mA Output

The **CR473** series, Voltage Transmitters are expanded scale instruments designed to accurately measure three-phase voltages. Each model produces three discrete 4-20 mA signals which are proportional (across the selected input voltage range) to the three-phase input voltage. The output is a true constant current driver which is unaffected by resistance variations in the output loop of 0-600 ohms. The CR4730 is designed to measure line-to-line voltages and the CR4731 to measure line-to-neutral. Both are average-reading, calibrated to read RMS.

Features

- Permanently calibrated
- Fully isolated
- ANSI/ISO 50.1 Class L3

Where to Buy <http://WWW.JDGASTORE.COM>

- Transducer Selection Guide: transducer.html
- Application Sheet: pdf/ancr4730-1.pdf
- Pricing: pricing/4730.html



Specifications

Nominal Input Voltages:

120, 240, 277 & 480 Vac

Accuracy:

±0.5% Full-Scale (FS)

Ripple On Output:

Less than 1%

Calibrated Signal Out:

4-20 mA DC

Response Time:

1.50 sec. max., 10-90% FS

Temperature Coefficient:

± 0.03%/°C

Supply Voltage:

24 Vdc ± 10%

Load Resistance:

0-600 ohms

Frequency:

50/60 Hz

Max. Continuous Input Voltage:

600 V

Operating Temperature Range:

-30°C to +60°C

Storage Temperature Range:

-50°C to +85°C

Shipping Weight:

Approx. 1.3 Pounds (.59 kg)

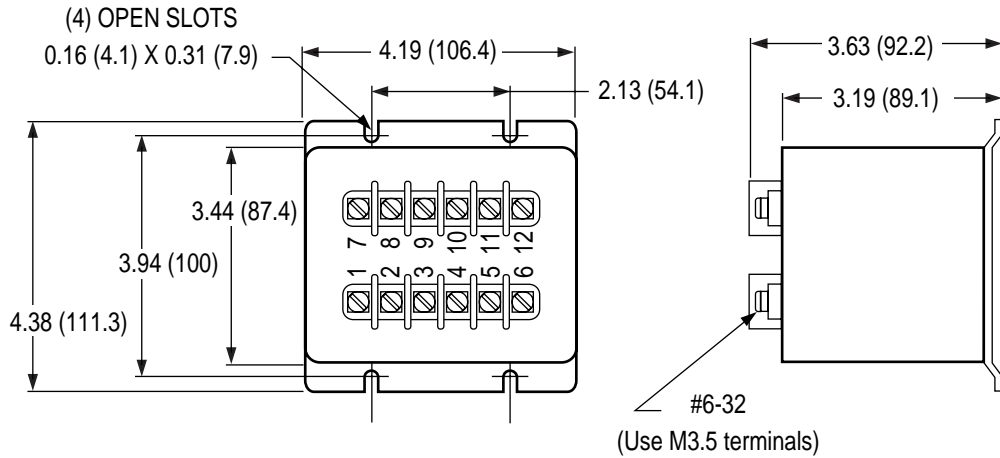
Reverse Polarity Protection:

Yes

PART NUMBERS	APPLICATION	NOMINAL VOLTAGE RANGE	INPUT VOLTAGE RANGE	INPUT BURDEN (MAX)	TRANSFER FUNCTION I _{LOOP} MA DC
CR4730-120	Line-to-line	120 V	90 V to 150 V	0.1 VA @ 240 V	$\frac{E_{IN} - 75}{3.75}$
CR4730-480 (Dual Range)	Line-to-line	240 V	180 V to 300 V	0.1 VA @ 265 V	$\frac{E_{IN} - 150}{7.5}$
		480 V	360 V to 600 V	0.1 VA @ 530 V	$\frac{E_{IN} - 300}{15}$
CR4731-120	Phase-to-neutral	120 V	90 V to 150 V	0.1 VA @ 150 V	$\frac{E_{IN} - 75}{3.75}$
CR4731-277	Phase-to-neutral	277 V	180 V to 300 V	0.1 VA @ 300 V	$\frac{E_{IN} - 150}{7.5}$

E_{in}=Volts RMS

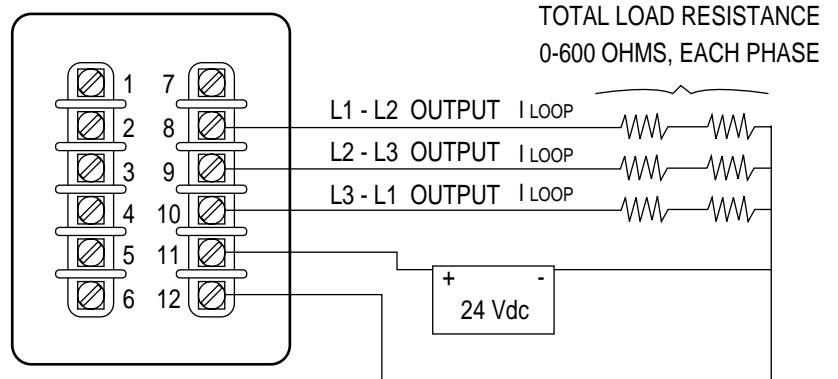
Outline Drawings



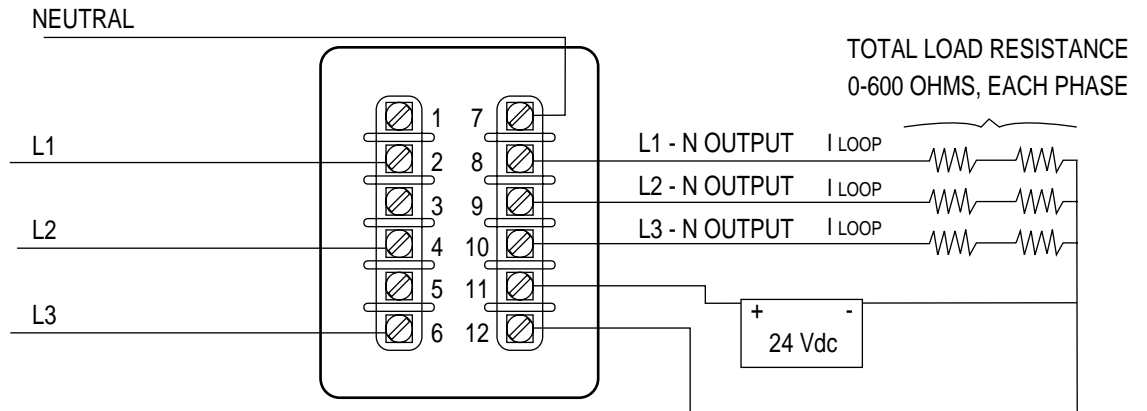
in (mm)

Typical Connection Diagrams

MODEL	RANGE IN VOLTS	CONNECTIONS L1 - L2 - L3
CR4730-480	360 TO 600	1 - 3 - 5
	180 TO 300	2 - 4 - 6
CR4730-120	90 TO 150	2 - 4 - 6



CR4730-120 AND CR4730-480
LINE-TO-LINE



CR4731-120 AND CR4731-277
PHASE-TO-NEUTRAL