



# ANALOG ISOLATOR

OPTICAL ISOLATION DEVICE

- High Reliability
- High Accuracy and Linearity
- Simple Installation

The Analog Optical Isolator module is a single isolated current in / current out or voltage in / voltage out channel of physical separation and electrical isolation for establishing and maintaining the independence of Class 1E equipment from non -Class 1E instrumentation circuits. Input-to-Output isolation has a steady-state isolation capability of 2500 volts AC rms. This isolation will be maintained between

- a) input to output signals
- b) input to output power
- c) output signal to input power

The devices are housed in non-combustible glass-filled polycarbonate cases with connecting terminals sloped at 45° angles to facilitate stacking of units. Input and Output terminals are easy access #10-32 studs.

All units are subjected to a burn-in test for a minimum of 100 hours at a temperature of approximately 140°F under load.

## ORDERING INFORMATION

Part Number	Isolator Type	Voltage Range	Input	Load Resistance	Linearity & Accuracy of Scale %
175D126-1	Voltage	0 -1 Vdc	100 K	100 K	.50
175D126-2	Voltage	0-5 Vdc	100 K	100 K	.50
175D126-3	Voltage	0-10 Vdc	100 K	100 K	.50
175D126-4	Voltage	0-1 / 0-10 Vdc	100 K	100 K	.50

Power for Input/Output: 120 Vac rms  $\pm 15\%$  60 Hz 1.7 W Maximum

Part Number	Type Current Range	Input / Output	Input Resistance	Load Resistance	Accuracy (Full Scale Span $\pm\%$ )
175D127-1	Current	-0.5 - +0.5	1 K	1 K	.75
175D127-2	Current	0 - 1	1 K	1 K	.75
175D127-3	Current	0 - 5	1 K	1 K	.50
175D127-4	Current	4 - 20	1 K	1 K	.50
175D127-5	Current	0 - 50	100 Ohm	100 Ohm	.50
175D127-6	Current	-1 - +1	1 K	1 K	.75
175D127-8	Current	4 - 20	100 Ohm	1 K	.50

Power for Input/Output: 120 Vac rms  $\pm 15\%$ , 60 Hz Input - 1.7 W Max. Output- 4.25 W Max.

**WEIGHT**

**2.4 LBS**

**TERMINAL CONNECTION**

**10-32 STUDS TO ACCOMMODATE RING OR SPADE LUGS OF #12 AWG WIRE**

**INPUT SIGNAL TOLERANCE**

**$\pm 10\%$**

**ENVIRONMENTAL CHARACTERISTICS:**

**OPERATING TEMPERATURE**

**30° To 140° CELSIUS**

**STORAGE**

**-20° TO 65° CELSIUS**

**RELATIVE HUMIDITY**

**0 TO 95% R.H. NON-CONDENSING**

**SURGE WITHSTAND CAPABILITY:**

**ANSI C37.90.1 1999**

**QUALITY CERTIFICATION:**

**ISO 9001:2008**

## DIMENSIONS

