

LT-Series Pump

TRICONTINENT
by Gardner Denver

FEATURES

- > Optimized for long life and ZERO maintenance
- > LT Series ensures ideal alignment of syringe
- > The UHMWPE syringe seals proved unparalleled life
- > Standard LT Pumps can be enhanced with options that include valves, electronics and encoders

CUSTOMER REQUIREMENTS

- > Drive Recommendations
Pump should typically be driven with a 24 VDC bipolar chopper drive, ½ step, at rated current. Higher voltage may be required at higher step rates
- > Environmental
Temperature (operating) 15°C to 45°C (59°F to 113°F)
Humidity (operating) 10-85% RH (non-condensing)

CONFIGURED OPTIONS

- > Available in 250 µL, 500 µL, 1.0 mL, 2.5 mL, 5.0 mL

BASE MODEL

- 250 µL
- 150 µL
- 1.0 mL
- 2.5 mL
- 5.0 mL

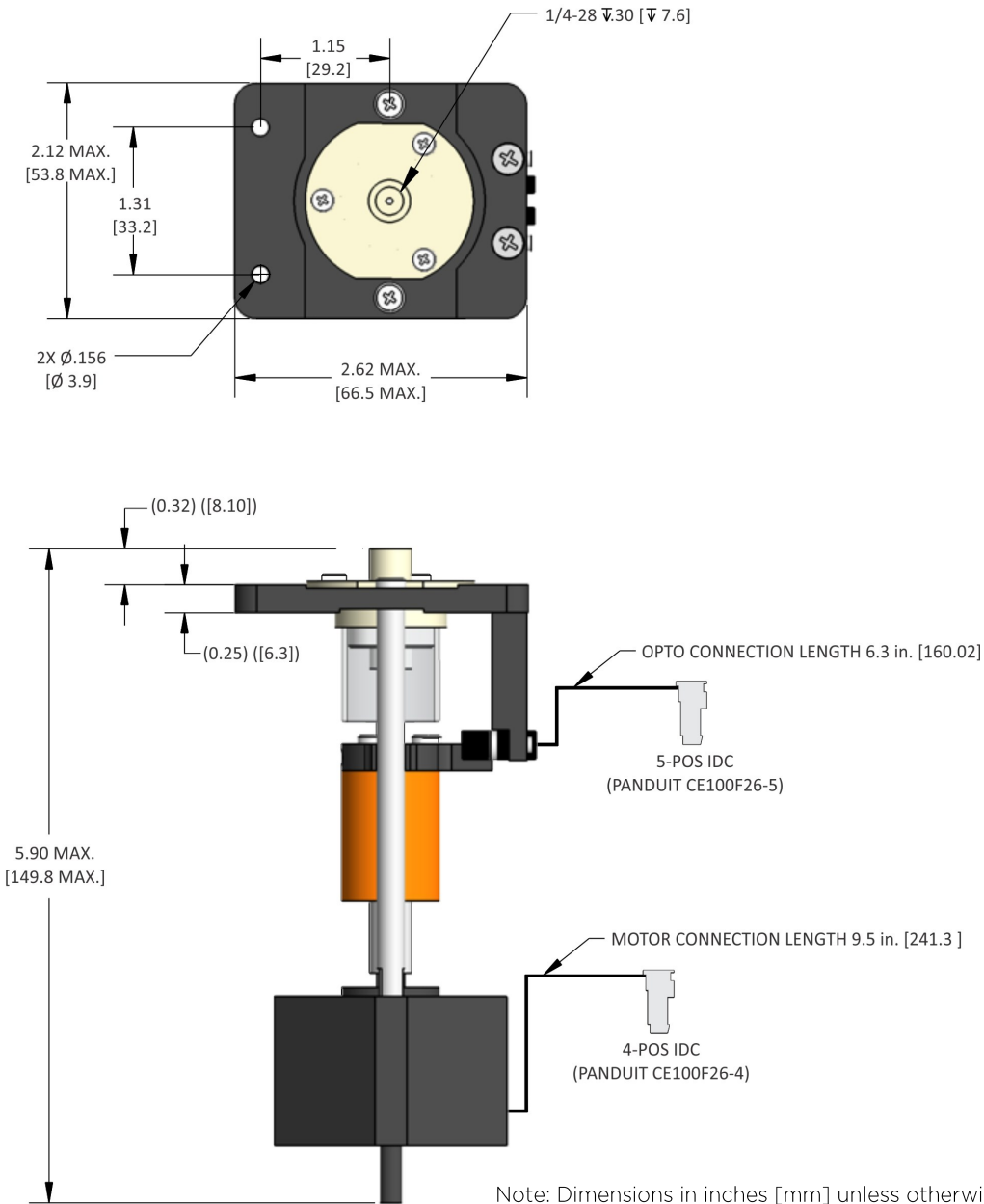


SPECIFICATIONS					
Volume Displacement (nominal)	250 μ L Catalog # 0386	500 μ L Catalog # 0387	1.0 mL Catalog # 0388	2.5 mL Catalog # 0389	5.0 mL Catalog # 0390
Step Resolution	0.150 μ L/full step	0.300 μ L/full step	0.600 μ L/full step	1.500 μ L/full step	3.000 μ L/full step
Syringe Data					
Bore	0.1721 in. [4.37 mm]	0.2433 in. [6.18 mm]	0.3446 in. [8.75 mm]	0.5441 in. [13.82 mm]	0.7694 in. [19.54 mm]
Stroke	0.667 in. [16.93 mm]	0.667 in. [16.93 mm]	0.667 in. [16.93 mm]	0.667 in. [16.93 mm]	0.667 in. [16.93 mm]
Fluid Backpressure	30 psi max. [2.07 bar]	30 psi max. [2.07 bar]	20 psi max. [1.38 bar]	10 psi max. [.689 bar]	5 psi max. [.344 bar]
Interface	1/4-28 female port	1/4-28 female port	1/4-28 female port	1/4-28 female port	1/4-28 female port
Materials	PPS, Borosilicate Glass, UHMWPE, Viton*				

FUNCTIONAL PARAMETERS	DATA APPLIES TO ALL VOLUMES
Imprecision (full stroke)	< 0.05% CV
Inaccuracy (full stroke)	< 1.0%
Dimensions (max.)	
Overall Width	2.12 in. [53.85 mm]
Overall Height	5.90 in. [149.86 mm]
Overall Depth	2.62 in. [66.55 mm]
Motor/Leadscrew Data	
Travel/Step	.0004 in. [0.01 mm] per full step
Step Angle	1.8 deg.
Resistance/Phase	3.5 Ω
Inductance/Phase	4.0 mH
Rated Current	900 mA
Rated Voltage	3.2 V*
Limit Sensor Data	
Type	Optoschmitt (Honeywell HOA6990)
Diode Current	15 mA typical

LT-SERIES PUMP INTERFACE DETAILS

Dimensions/Features noted are typical for any size, LT-Series Pump (5.0 mL shown)



POSITIVE DISPLACEMENT PUMP SOLUTIONS FOR OEMS WORLDWIDE

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The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of TriContinent products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability in connection there with. TriContinent does not warrant, guarantee or assume any obligation or liability in connection with this information.

Photos of products pictured in this catalog do not necessarily represent a specific model number. To obtain further information for custom options, contact your local TriContinent office.

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