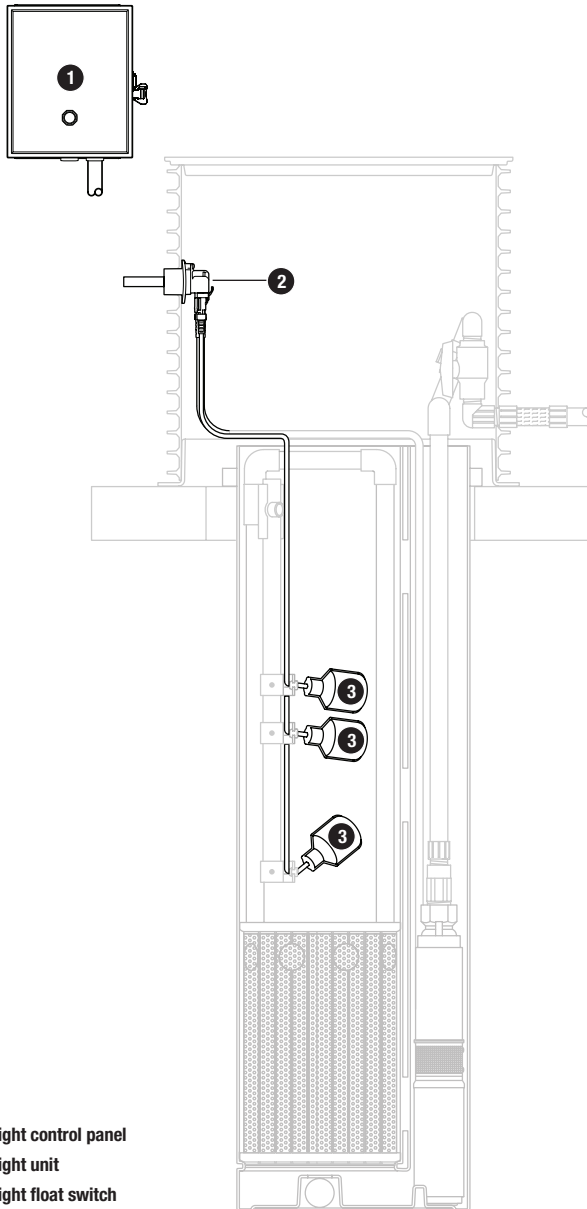


Orenco ClickTight™ Controls Package

Applications

The Orenco ClickTight Controls Package is an integrated set of wastewater controls components designed to provide secure wiring connections without the need for conduit sealing. The ClickTight connects a pump, float switches, and a control panel in an onsite wastewater system, without the use of splice boxes, field-spliced wires, or watertight wire nuts.

The Orenco ClickTight is UL-listed for the US and Canada. ClickTight connectors are IP 67 rated.



1. ClickTight control panel
2. ClickTight unit
3. ClickTight float switch

ClickTight components (optional plug cord adapter not shown)

General

Orenco's ClickTight Controls Package is a complete, integrated package for making fast and easy wiring connections. It greatly reduces the risk of electrical failures due to moisture, faulty splices, improperly installed waterproof wire nuts, or corrosion.

The ClickTight Controls Package includes:

- ClickTight
- ClickTight control panel
- ClickTight float switches
- Optional ClickTight pump adapter plug*

* ClickTight-compatible PF-series effluent pumps are available. See [NTD-CLK-1, Orenco ClickTight Products Technical Data Sheet](#), for more information.

Product Code Diagram

CLKP - [] - [] - [] - []

Pump cord adapter option:
NA = No pump cord adapter included
PA = Pump cord adapter

Cable length, ft (m):
60 = 62 (19)

Float switch cord length, ft (m):
10 = 10 (3)
20 = 20 (6)

Control panel; float switches:

S11 = S1; 3P
S12 = S1ETMCT; 3P
S13 = S1HR; 2P
S14 = S1PTR0; 2BN
S15 = S1PTROETMCT; 2BN
S16 = S1RO; 3PN
S17 = S1ROETMCT; 3PN
S18 = S1ROETMCTSA; 3PN
S19 = S1ROMTSGR-NC; 3PN

M11 = MVP-S1DM; 3P
M12 = MVP-S1DMHT; 3P
M13 = MVP-S1DMHTSA; 3P
M14 = MVP-S1DMHTMTSGR-NC; 3P
M15 = MVP-S1DM(DEMAND); 3P
M21 = MVP-S2DM; 3P
M22 = MVP-S2DMHT; 3P
M23 = MVP-S2DMHTSA; 3P

ClickTight™ controls package

ClickTight Unit

Orenco's ClickTight greatly reduces the risk of electrical failures in onsite wastewater systems by providing secure, water-resistant cable connections between a ClickTight-compatible pump, up to four ClickTight-compatible float switches, and a control panel. It eliminates the need for splice boxes, field-spliced wires, wire nuts, and conduit seals.

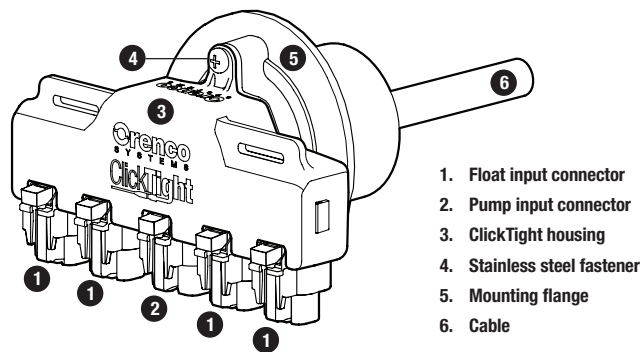
ClickTight is UL listed for the US and Canada for 120V/240V applications. ClickTight connectors are IP 67 rated.

Materials of Construction

Cable	PVC/nylon, annealed copper
Connectors	Glass-filled thermoplastic, silicone
Fastener	Stainless steel
Housing	ABS
O-ring	Buna-N
Potting compound	Urethane

Specifications

Pump cable	14AWG; 3 conductor; UL TC-ER 600V
Float cable	18AWG; 2-8 conductor; UL TC-ER 600V
Cable length, max., ft (m)	62 (19)
Float switch connectors	Double-pole, IP 67
Pump connector	Triple-pole, IP 67



ClickTight unit

ClickTight Float Switches

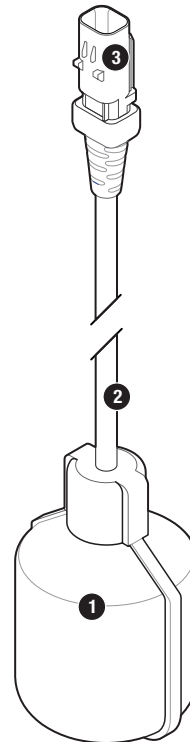
ClickTight float switches are mechanical, non-mercury switches. They are cUL listed and CSA certified for use in water or sewage.

Materials of Construction

Float switch collar	ABS
Float switch cord	Flexible, 2-conductor (UL, CSA) SJOW; water-resistant CPE cord jacket with EPDM insulated conductors
Float switch housing	Impact resistant, noncorrosive polypropylene for use in liquids up to 140°F (60°C)
Float switch connector	Glass-filled thermoplastic, silicone, IP 67

Float Switch Specifications

Float	State	Type
B	Normally open	Mechanical
P	Normally open	Mechanical
N	Normally closed	Mechanical



ClickTight mechanical float switch

ClickTight Pump Cord Adapters

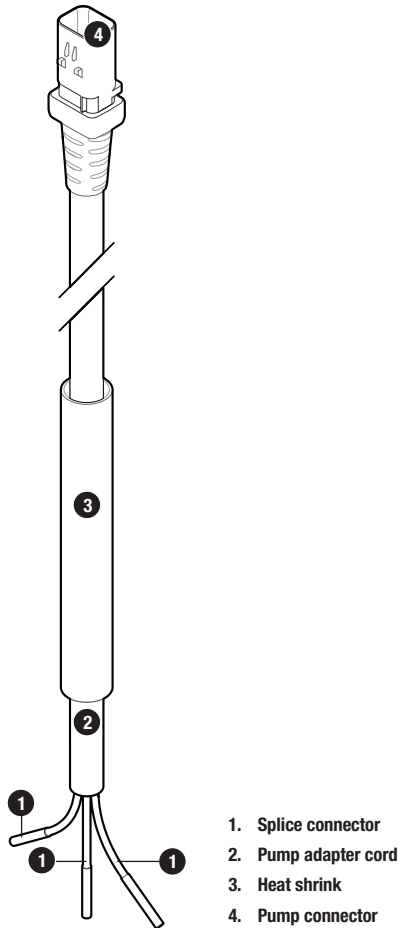
Orenco's ClickTight pump cord adapters provide a means of retrofitting a ClickTight pump connector to an existing Orenco pump or a customer-sourced, single-phase, 120V/240V pump of up to 1hp (0.75kW) and rating of 13FLA.

Materials of Construction

Connector	Glass-filled thermoplastic, silicone
Heat shrink	Adhesive-filled polyolefin
Splice connector	Nylon, copper

Specifications

Connector	Triple-pole, IP 67
Cord	3 conductor, 16AWG, SOOW, 600V
Heat shrink	12-6AWG, 600V
Splice connector	16-14AWG



1. Splice connector
2. Pump adapter cord
3. Heat shrink
4. Pump connector

ClickTight pump cord adapter

ClickTight S Control Panels

Orenco's ClickTight S control panels are electromechanical panels specifically engineered for controlling single pumps in conjunction with the ClickTight controls package.

Materials of Construction

Enclosure	UV-resistant fiberglass, UL Type 4X (IP 66)
Hinges and latches	Stainless steel

Dimensions, in (mm)

Height	11.5 (292)
Width	9.3 (236)
Depth	5.4 (137)

Specifications

Audio alarm	95dB at 24in (610mm), warble-tone sound; gasketed, UL Type 4X (IP 66)
Audio alarm silence relay	120VAC, automatic reset, DIN rail mount
Circuit breakers	120VAC, 10A, OFF/ON switch, single-pole
Motor-start contactor	16FLA, 1hp (0.75kW), 60Hz; 2.5 million cycles at FLA
Panel ratings	120VAC, 1hp (0.75kW), 16A, single-phase, 60Hz
Pump circuit breaker	20A, OFF/ON switch, single-pole (120VAC) or double pole (240VAC), DIN rail mounting with thermal magnetic tripping characteristics
Toggle switch	Single-pole, double-throw HOA switch
Visual alarm	7/8in (22mm) diameter red lens, "push-to-silence," 120VAC LED, UL Type 4X

Model-Specific Options

Elapsed time meter	120VAC, 7 digit, non-resettable. Limit of 99,999 hours; accurate to 0.01 hours
Event counter	120VAC, 6 digit, non-resettable
Programmable timer	Repeat cycle from 0.05 seconds to 30 hours; separate variable controls for OFF & ON time period
Redundant high-on relay	120VAC, DIN rail mount; provides a secondary pump-on during high-level conditions
Redundant-off relay	120VAC, DIN rail mount; provides secondary off; sounds alarm on low-level condition
Surge arrestor	Status light on unit; protects incoming power supply from electrical surges

ClickTight M Control Panels

Orenco's ClickTight M control panels provide timed- or demand-dosing controls with an easy-to-use, programmable logic unit (PLU) that incorporates many timing and logic functions, such as multiple timing intervals to adjust for changing flow conditions and a built-in elapsed time meter and counter. These panels are specifically engineered for controlling single pumps in conjunction with the ClickTight controls package.

Materials of Construction

Enclosure	UV-resistant fiberglass, UL Type 4X (IP 66)
Hinges and latches	Stainless steel

Dimensions, in (mm)

Height	11.5 (292)
Width	9.3 (236)
Depth	5.4 (137)

Specifications

Audio alarm	95dB at 24in (610mm), warble-tone sound; gasketed, UL Type 4X (IP 66).
Audio alarm silence relay	120VAC, automatic reset, DIN rail mount
Circuit breakers	120VAC, 10A, OFF/ON switch, single-pole
Motor-start contactor	16FLA, 1hp (0.75kW), 60Hz; 2.5 million cycles at FLA
Panel ratings	120VAC, 1hp (0.75kW), 16A, single-phase, 60Hz
Programmable logic unit	120V programmable logic unit with built-in LCD screen and programming keys; provides control functions and timing for panel operation
Pump circuit breaker	20A, OFF/ON switch, single-pole (120VAC) or double-pole (240VAC), DIN rail mounting with thermal magnetic tripping characteristics
Toggle switch	Single-pole, double-throw HOA switch
Visual alarm	7/8in (22mm) diameter red lens, "push-to-silence," 120VAC LED, UL Type 4X

Model-Specific Options

Heater	Anti-condensation heater; self-adjusting feature radiates additional wattage as temperature drops
Surge arrestor	Status light on unit; protects incoming power supply from electrical surges