MODEL 312 Control Panel

Three phase, simplex motor contactor control.

The Model 312 control panel provides industrial and commercial customers with a reliable means of controlling one three phase pump in water and sewage installations. Two control switches activate a IEC motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system. Common applications include pump chambers, irrigation systems, and lift stations.

PANEL COMPONENTS

- Enclosure measures 12 x 10 x 6 inches (30.48 x 25.40 x 15.24 cm).
 NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
- 2. IEC Motor Contactor controls pump by switching electrical lines.
- Multi-Tap Transformer (208/240/480 VAC primary) provides 120V control/ alarm voltage.
- Motor Protective Switch provides adjustable overload, branch circuit protection and pump disconnect.
- HOA Switch for manual pump control (mounted on circuit board).
- 6. Green Pump Run Indicator Light mounted on circuit board.
- 7. Alarm Fuse (mounted on circuit board).
- Control Fuse (mounted on circuit board).
- 9. Alarm and Control Power Indicators (mounted on circuit board).
- 10. Float Switch Terminal Block (mounted on circuit board).
- 11. Input Power Terminal Block
- 12. Ground Lugs

NOTE: Schematic/Wiring Diagram is located inside the panel on enclosure cover.

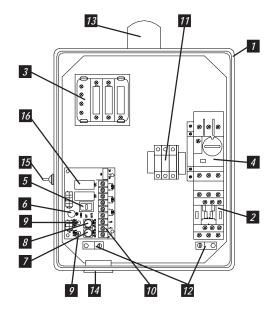
STANDARD ALARM PACKAGE

- 13. Red Alarm Beacon provides 360° visual check of alarm condition.
- **14. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- **15. Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
- 16. Horn Silence Relay (mounted on circuit board).

NOTE: other options available.

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/ or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' SignalMaster® control switches
- Complete with step-by-step installation instructions
- Five-year limited warranty



Model Shown 3121W511X





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312
MODEL 312
ALARMPACKAGE —
0 = select options or no alarm package 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn, & float)
ENCLOSURERATING W = Weatherproof, NEMA 4X (engineered thermoplastic)
PUMP FULL LOAD AMPS 001 = 1.0-1.6 FLA 101 = 1.6-2.5 FLA 201 = 2.5-4.0 FLA 301 = 4.0-6.3 FLA 401 = 6.0-10.0 FLA 511 = 9.0-14.0 FLA 611 = 13.0-18.0 FLA 621 = 17.0-23.0 FLA 701 = 20.0-25.0 FLA
FLOAT SWITCH APPLICATION H or L = pump down or pump up (select 17 option) X = no floats WITH alarm package WITHOUT alarm package
OPTIONS Listed below
CODE DESCRIPTION 1A Red beacon only / no audio (must select 1E if floats included) (must select 1E if floats included) (must select 1E if floats included) 11C NEMA 1 alarm panel (must select option 6A) 11B NEMA 4X alarm panel (must select option 6A) 11B NEMA 4X alarm panel (must select option 6A) 11B NEMA 4X alarm panel (must select option 6A) 11B NEMA 4X alarm panel (must select option 6A) 11B Nain Disconnect (14X12 enclosure upgrade) (rotary style, mounted through door, non-fused) 13B Manual alarm reset 16A 10' cord in lieu of 20' (per float) (select option 4D if floats included) 16B 15' cord in lieu of 20' (per float) (select option 4D if floats included) 16B 15' cord in lieu of 20' (per float) 16B 40' cord in lieu of 20' (per float) 17A SJE SignalMaster® / mounting strap ♠ (per float) 17B SJE SignalMaster® / externally weighted ♠ (per float) 17C Sensor Float® / internally weighted ♠ (per float) 17D Sensor Float® / seternally weighted ♠ (per float) 17D Sensor Float® / seternally weighted ♠ (per float) 17D Sensor Float® / seternally weighted ♠ (per float) 17D Sensor Float® / seternally weighted ♠ (per float) 17D Sensor Float® / seternally weighted ♠ (per float) 17D Sensor Float® / seternally weighted ♠ (per float) 17D Sensor Float® / seternally weighted ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per float) 17D Sensor Float® / pipe clamp ♠ (per
If additional features are required, call the factory for a quote on an Engineered Custom control panel. SAMPLE
MODEL 312 1 W 401 H 3A 8A 17A Alarm Package

(MECHANICAL)

SJE SIGNALMASTER® Control Switch

Mechanically-activated, narrow-angle float switch designed to activate pump control panels and alarms.

This narrow-angle sensing device is used to accurately monitor liquid levels in:

- potable water
- water
- sewage applications

The SJE SignalMaster® control switch is not sensitive to rotation.

Normally Open Model (high level)

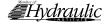
The control switch turns on (closes) when the float tips slightly **above** horizontal signaling a high level, and turns off (opens) when the float drops slightly below horizontal.

Normally Closed Model (low level)

The control switch turns on (closes) when the float tips slightly below horizontal signaling a low level, and turns off (opens) when the float tips slightly above horizontal.

FEATURES

- Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory.
- Mechanically-activated, snap action contacts.
- High impact, corrosion resistant, polypropylene float housing.
- Not sensitive to rotation.
- Control differential of 1.5 inches (4 cm) above or below horizontal.
- Yellow colored cap for easy identification of normally open control switch
- White colored cap for easy identification of normally closed control switch.
- UL Listed for use in water and sewage.
- CSA Certified.
- Five-year limited warranty.





OPTIONS

This switch is available:

- CE certified unit available upon request.
- for normally open (high level) applications or normally closed (low level) applications.
- in standard cable lengths of 10, 15, 20, or 30 feet and 3, 5, 6, or 10 meters (longer lengths available)
- with two mounting options that allow for flexibility in installation:

Mounting Clamp: for applications where the switch can be attached to a discharge pipe or similar mounting device.

Externally Weighted: for applications where the switch can be suspended from above.



CABLE: flexible 18 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)

FLOAT: 2.74 inch diameter x 4.83 inch long (7.0 x 12.3 cm) high impact, corrosion resistant, polypropylene housing for use in sewage and water up to 140°F (60°C)

MAXIMUM WATER DEPTH: 30 feet (9 meters), 13 psi (90 kPa)

ELECTRICAL: 5 amp, 125/250 VAC, 50/60 Hz

NOTE: This switch is not recommended for controlling:

- electric loads less than 100 milliamps, 12 VAC
- non-arcing electric loads



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