INSTALLER FRIENDLY SERIES® - IFS Single Phase Duplex Capacitor (Start/Run)

Single phase, duplex demand dose, float or C-Level™ controlled system for pump control and system monitoring.

The IFS single phase duplex capacitor (start/run) control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail.

The IFS single phase duplex capacitor (start/run) control panel features a simple, easy-to-use touch pad on the inner door for programming and monitoring pump and float operation.

The optional C-Level™ sensor is a pressure transducer that senses the liquid level in the tank and sends a signal to the IFS panel. Pump activation levels can be adjusted by using the panel touch pad. C-Level™ CL40 sensor operating range is 3-39.9 inches (7.6-101.3 cm). C-Level™ CL100 operating range is 3-99.5 inches (7.6-252.7 cm).

TOUCH PAD FEATURES

- A. Level Status Indicators illuminate when floats or set points are activated. Alarm will activate if a float operates out of sequence.
- B. HOA (Hand-Off-Automatic) Buttons control pump mode with indication. Hand mode defaults to Automatic when stop level or redundant off level is reached.
- C. Pump Run Indicators will illuminate when pumps are called to run.
- **D.** Lead/Lag Selector toggles pump operation (alternate 1-2 and 2-1).
- E. LED Display shows system information including: level in inches or centimeters (C-Level™ only), mode, pumps elapsed time (hh:mm), events (cycles), alarm counter, float error count, timed dose override counter (timed dose only), and ON/OFF times (timed dose only).
- F. NEXT Push Button toggles display.
- G. UP and SET Push Buttons set pump ON/OFF times (timed dose only) and activation levels (C-Level™ only).

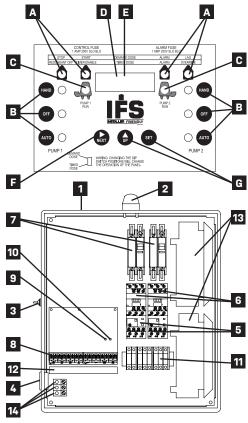
PANEL COMPONENTS

- Enclosure base measures 18 X 16 X 8 inches (45.72 X 40.64 X 20.32 cm). NEMA 4X fiberglass. Note: Options, voltage, and amp range selected may change enclosure size and component layout.
- 2. Red Alarm Beacon provides 360° visual check of alarm condition.
- 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.
- Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
- 5. Overload Relays (optional) provide pump overload protection.
- **6. IEC Motor Contactors** control pumps by switching electrical lines.
- Circuit Breakers (optional) provide pump disconnect and branch circuit protection.
- 8. Float and Control/Alarm Incoming Power Terminal Block
- Control Power Indicator/Fuse indicator light illuminates if control power is present in panel. Alarm activates if control fuse is blown.
- Alarm Power Indicator/Fuse indicator light illuminates if alarm power is present in panel.
- 11. Large Pump/Incoming Power Terminal Block

SEE REVERSE SIDE FOR ORDERING INFORMATION.

- 12. Terminal Block Float and Control/Alarm Incoming Power Wiring Label
- 13. Cap Kits
- 14. Ground Lugs

NOTE: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel on enclosure cover.



Model Shown IFS81W114X912A8AC

Reg. Cdn Pat. & TM Off

C-Level™ Sensor US Patent No. 8,336,385; 8,567,242; 8,650,949

FEATURES

- Entire control system 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' control switches
- Available with EZconnex® float system
- Complete with step-by-step installation instructions
- Five-year limited warranty. This express warranty does not apply to the motor start kit components. SJE Rhombus will warranty motor start kit components supplied by SJE Rhombus for one year. SJE Rhombus makes no warranties of any type with respect to motor start kits supplied by a customer.



PO Box 1708, Detroit Lakes, MN 56502 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax

email: customer.service@sjeinc.com

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	3A 3B 3E 4A 4D 5A 5E 6A 8AC 9_A 10E 10F 10K 11C	Alarm flasher Manual alarm re High water alar (Available only Redundant off (select option 4D Redundant off fl (must select 4A o Thermal cutout, (for pumps w/th Seal failure circ Auxiliary alarm o Display board in counter, alarm o switch.(Included Pump overload specify ampera Example: 912A = 0-30 FLA	m float (must s when Switch if floats are req float ption) (must sele /heat sensor a mermal switch suit & red indic contacts, form cludes: ETM c counter and le as standard) ge after numb = 12 amp pump - NEMA 4X tor (must select in power combine ion heater alarm panel on 6A)	select 17 option Application uired) ect 17 option) auto reset leads) eator (2 wire n C counter, evel ad/lag select er 9 followe co. er pump circuit	\$50.0 \$90.0 \$90.0 \$25.0 \$25.0 \$55.0 \$55.0 \$55.0 \$55.0 \$80.0 \$315.0 \$40.0 \$100.0 \$100.0 \$40.0 \$100.0		16A 16B 16C 16D 17C 17D 17G 17H 17J 19F 24E 24F 24G 24H 24X 29A 29B 29X 34D 34E	10' cord in I 15' cord in I 30' cord in I 30' cord in 40' cord in Sensor Floa SJE MilliAm SJE MilliAm Sensor Floa C-Level™ CL SOC C-Level™ CL C-Level™ CL C-Level™ CL C-Level™ CL C-Level™ CL SC-Level™ CL C-Level™ CL C-Level™ CL SC-Level™ CL C-Level™ CL C-Lev	lieu of 2 lieu of 2 lieu of 2 lieu of : lieu of : at* / inta at* / ext npMaste npMaste at* / pip t to sep L40 sen L40 sen L40 sen L40 ser CL40 L100 se L100 se 4-Port, : g * 4-Port, : g *	20' (per f 20' (per f 20' (per f 20' (per f 20' (per f ernally v ernally v ernally v er clamp parate a asor with asor with asor with sensor w/ ensor w/ 0 sensor 25', w/1	float) float) float) float) float) weighted a weighted a clamp e clamp ernally weighted a larm funct h 4' vent th 8' vent th 8' vent th 8' vent th 10' tent th 10'	▲ (per float) ighted ● (per float) ighted ● (per float) ition from tube & 20 tube and tube and tube and tube & 40 3) /pipe c		2.00 1.00 5.00 5.00 5.00 7.00 7.00 7.00 7.00 7
	3A 3B 3E 4A 4D 5A 5E 6A 8AC 9_A 10E 10F 10K 11C	Alarm flasher Manual alarm re High water alar (Available only Redundant off (select option 4D Redundant off fl (must select 4A o Thermal cutout, (for pumps w/th Seal failure circ Auxiliary alarm o Display board ir counter, alarm o switch.(Included Pump overload specify ampera Example: 912A = 0-30 FLA	m float (must s when Switch if floats are req float ption) (must sele /heat sensor a nermal switch tuit & red indic contacts, form ncludes: ETM o counter and le as standard) ge after numb = 12 amp pump - NEMA 4X tor (must select n power combine ion heater alarm panel on 6A) te alarm panel	select 17 option Application uired) ect 17 option) auto reset leads) eator (2 wire counter, ever ead/lag select er 9 follower counter.	\$50.0 \$90.0 \$90.0 \$25.0 \$55.0 \$55.0 \$25.0 \$80.0 \$315.0 \$40.0 \$100		16A 16B 16C 16D 17C 17D 17G 17H 17J 19F 24E 24F 24G 24H 24X 29A 29B 29X 34D 34E	10' cord in I 15' cord in I 30' cord in I 30' cord in 40' cord in Sensor Floa SJE MilliAm SJE MilliAm Sensor Floa C-Level™ CL SOC C-Level	lieu of 2 at* / into at* / ext npMaste npMaste at* / pip t to sep L40 sen L40 sen L40 sen L40 sen L40 sen 40 cL100 40 cl10	20' (per f 20' (per f 20' (per f 20' (per f 20' (per f 20' (per f ernally v ernally v er e clamp parate a asor wit asor wit asor wit asor wit sensor w/ 25', w/1 	float) float) float) float) weighted a weighted a e clamp • ernally weighted larm funct h 4' vent th 8' vent th 8' vent th 8' vent th 10' vent th 10' vent th 10' vent th 10' floats (▲ (per float) ighted ● (per float) ighted ● (per float) ighted ● (per float) ition from tube & 20 tube and tube and tube and tube & 40		2.00 1.00 5.00 5.00 5.00 7.00
	3A 3B 3E 4A 4D 5A 5A 6A 8AC 9_A 10E 10F 11D 11D	Alarm flasher Manual alarm re High water alar (Available only Redundant off (select option 4D Redundant off f (must select 4A o Thermal cutout, (for pumps w/th Seal failure circ Auxiliary alarm of Display board in counter, alarm of switch.(Included Pump overload specify ampera Example: 912A = 0-30 FLA	m float (must s when Switch if floats are req float ption) (must sele /heat sensor a nermal switch ruit & red indic contacts, form ncludes: ETM c counter and le as standard) ge after numb = 12 amp pump	select 17 option Application uired) ect 17 option) auto reset leads) eator (2 wire ocunter, ever ead/lag select er 9 followe ocunter, ever extended and exten	\$50.0 \$90.0 \$90.0 \$25.0 \$55.0 \$55.0 \$55.0 \$55.0 \$55.0 \$55.0 \$6 \$6.0 \$6.0 \$6.0 \$6.0 \$6.0 \$6.0 \$6.0		16A 16B 16C 16D 17C 17D 17G 17H 17J 19F 24E 24F 24G 24H 24X 29A 29B 29X 34D 34E 34G 34H	10' cord in I 15' cord in I 30' cord in I 30' cord in 40' cord in Sensor Floa SJE MilliAm SJE MilliAm Sensor Floa C-Level™ CL	lieu of 2 at* / inta at* / ext npMaste npMaste at* / pip t to sep L40 sen L40 sen L40 sen L40 sen L40 ser 4-Port, g * 4-Port, g * 4-Port, g * 4-Port, g *	20' (per f 20' (per f 20' (per f 20' (per f 20' (per f 20' (per f ernally v ernally v ernally v er clamp parate a asor with asor with asor with sensor w/ sensor w/ 25', w/1	float) float) float) float) float) weighted a weighted a e clamp ernally weighted a larm funct h 4' vent th 8' vent th 8' vent th 8' vent th 10' vent th 10' floats (2.00 1.00 5.00 5.00 5.00 7.00
	3A 3B 3E 4A 4D 5A 5E 6A 8AC 9_A 10E 10F 11D 12B	Alarm flasher Manual alarm re High water alar (Available only Redundant off (select option 4D Redundant off f (must select 4A o Thermal cutout, (for pumps w/th Seal failure circ Auxiliary alarm Display board ir counter, alarm oswitch.(Included Pump overload specify ampera Example: 912A = 0-30 FLA	m float (must s when Switch if floats are req float ption) (must sele /heat sensor a nermal switch ruit & red indic contacts, form ncludes: ETM c counter and le as standard) ge after numb = 12 amp pump	select 17 option Application uired) ect 17 option) auto reset leads) eator (2 wire ocunter, ever ead/lag select er 9 follower ocunter. expump circuit ed)	\$50.0 \$90.0 \$90.0 \$25.0 \$55.0 \$55.0 \$55.0 \$55.0 \$55.0 \$65.0		16A 16B 16C 16D 17C 17D 17G 17H 17J 19F 24E 24F 24G 24H 24X 29A 29B 29X 34D 34E 34G 34H	10' cord in I 15' cord in I 30' cord in I 30' cord in 40' cord in Sensor Floa SJE MilliAm Sensor Floa SJE MilliAm Sensor Floa C-Level™ CL SC-Level™ CL C-Level™ CL SEZCONNEX® sealing plug EZCONNEX® SEZCONNEX® EZCONNEX®	lieu of 2 at* / inta at* / ext npMaste npMaste at* / pip t to sep L40 sen L40 sen L40 sen L40 sen 40 L100 se L100	20' (per f 20' (per f 20' (per f 20' (per f 20' (per f 20' (per f ernally v ernally v ernally v er clamp parate a asor with asor with as	float) float) float) float) float) weighted weighted e clamp ernally weighted for a clam funct had been a clam function f			2.00 1.00 5.00 5.00 5.00 7.00