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

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

The IFS single phase simplex capacitor (start/run) control panel is designed to control one 120, 208, or 240 VAC single phase pump in water and sewage installations. The IFS single phase simplex 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

TOUCH PAD FEATURES

- 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 Indicator illuminates when pump is called to run.
- D. LED Display shows system information including: level in inches or centimeters (C-Level[™] only), mode, pump elapsed time (hh:mm), events (cycles), alarm counter, float error count, timed does override counter (timed dose only), and ON/OFF times (timed dose only).
- **NEXT Push Button** toggles display.
- UP and SET Push Buttons set pump ON/OFF times (timed dose only) or activation levels (C-Level™ only).

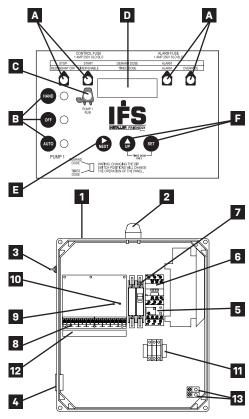
PANEL COMPONENTS

- **Enclosure** base measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use). 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.
- 4. Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
- Overload Relay (optional) provides pump overload protection.
- **IEC Motor Contactor** controls pump by switching electrical lines.
- Circuit Breaker (optional) provides pump disconnect and branch circuit protection.
- 8. Float and Control/Alarm Incoming Terminal Block
- Control Power Indicator/Fuse indicator light illuminates if control power is present in panel. Alarm will activate if control fuse is blown.
- 10. Alarm Power Indicator/Fuse indicator light illuminates if alarm power is present in panel.
- 11. Large Pump Connection Power Terminal Block

SEE REVERSE SIDE FOR ORDERING INFORMATION.

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

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



Model Shown IFS71W114X912A8AC

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

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H	3A 3B	Alarm flasher Manual alarm	reset				\$50.00 \$90.00		16A 16B	10' coi 15' coi	rd in lie rd in lie	eu of 2	20' (pe	r float)				\$2.00 \$1.00
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	3A 3B 3E 4A 4D 5A 8AC 9_A 10E 10F 10F	Alarm flasher Manual alarm High water al (Available on Redundant of (select option Redundant of (must select 4/ Thermal cuto (for pumps w Seal failure c Auxiliary alarn Display board counter, alarn Pump overloa specify ampe Example: 912. 0-30 FLA 30-100 FLA Lockable late Lightning arre control and ala.	reset arm float (Ily when S f	are requir are requir ust select nsor aut witch lead indicate from C ETM cou fincluded of number pump. select pump mombined)	ect 17 option pplication 17 option. o reset ads) or (2 wire content of the second o	nts (cycle rd)	\$50.00 \$90.00 \$25.00 \$55.00 \$40.00 \$40.00 \$160.00 \$40.00 \$17 "A". \$60.00 \$100.00 \$40.00		16A 16B 16C 17C 17D 17G 17H 17J 24E 24F 224G 229A 233D 33E 33G 333H	10' con 15' con 30' co 40' co Senso Senso SJE M Senso C-Leve C-Le	rd in lierd in lierd in lierd in lierd in lierd in lierd in lier Float in Float iilliAmpiilliAmpiir Floatel™ CL4el™ CL4el™ CL4el™ CL4el™ CL4el™ CL4el™ CL4aevel™ nex* 3 nex* 3 nex* 3 nex* 3	eu of 2 eu of	20' (pee 20	r float) er float) v weigh v weigh oe clam ternall op (p ith 4' v ith 8' v ith 8' v v/10' v v/10' flo v/20' flo v/20' flo	ted the first te	(per float	at)	\$2.00\$1.00\$15.00\$15.00\$11.00\$7.00\$4.00\$280.00\$310.00\$285.00\$315.00\$290.00\$290.00\$290.00\$268.00\$304.00
	3A 3B 3E 4A 4D 5A 8AC 9_A 10E 10F 10K	Alarm flasher Manual alarm High water al (Available on Redundant of (select option Redundant of (must select 4/ Thermal cuto (for pumps w Seal failure c Auxiliary alarn Display board counter, alarn Pump overloa specify ampe Example: 912. 0-30 FLA 30-100 FLA Lockable late Lightning arre	reset arm float (Ily when S f	are requir are requir ust select nsor aut witch lead indicate from C ETM cou fincluded of number pump. select pump mombined) er	ect 17 option pplication 17 option. o reset ads) or (2 wire content of the second o	nts (cycle rd)	\$50.00 \$90.00 \$25.00 \$55.00 \$40.00 \$40.00 \$160.00 \$40.00 \$17 "A". \$60.00 \$100.00 \$40.00		16A 16B 16C 17C 17D 17G 17H 17J 24E 24F 224F 224A 229A 33D 33E 33G 33H	10' con 15' con 30' co 40' co 40' co Senso SJE M SJE M Senso C-Leve C-Leve C-Leve C-Leve C-Leve C-Leve Do	rd in lierd in lierd in lierd in lierd in lierd in lierd in lier Float in Float iilliAmpiilliooooooooooooooooooooooooooooooooo	eu of 2 eu of	20' (pee 20	r float) r float) r float) r weigh y weigh oe clam ternall op (p ith 4' v ith 8' v ith 8' v v/10' v ion /10' flo /20' flo /10' flo	ted inted inted inp in	(per floating floatin	oat)	\$2.00\$1.00\$15.00\$15.00\$11.00\$7.00\$4.00\$280.00\$310.00\$285.00\$290.00\$290.00\$290.00\$268.00\$310.00
	3A 3B 3E 4A 4D 5A 8AC 9_A 10E 10F 10K	Alarm flasher Manual alarm High water al (Available on Redundant of (select option Redundant of (must select 4/ Thermal cuto (for pumps w Seal failure c Auxiliary alarn Display board counter, alarn Pump overlos specify ampe Example: 912. 0-30 FLA 30-100 FLA Lockable late Lightning arre control and ala Anti-condens	reset arm float (Ily when S f	are requir are requir ust select nsor aut witch lead indicate from C ETM cou fincluded of number pump. x select pu pombined) er	ect 17 option pplication red) 17 option. o reset ads) or (2 wire moter, eve as standar 9 followe	ed by lette	\$50.00 \$90.00 \$25.00 \$55.00 \$25.00 \$40.00 \$40.00 \$160.00 \$40.00 \$17 "A". \$60.00 \$40.00 \$40.00 \$100.00		16A 16B 16C 17C 17D 17G 17H 17J 24E 24F 224F 224A 229A 33D 33E 33G 33H	10' con 15' con 30' co 40' co 40' co Senso SJE M SJE M Senso C-Leve C-Leve C-Leve No C-Leve C-Leve D-Leve D	rd in lierd in lierd in lierd in lierd in lierd in lierd in lier Float in Float iilliAmpiilliooooooooooooooooooooooooooooooooo	eu of 2 eu of	20' (pee 20	r float) r float) r float) r weigh y weigh oe clam ternall np ▲ (p ith 4' v ith 8' v ith 8' v v/10' v v 10' flo r/20' flo r/20' flo r/10' flo r/10' flo	ted inted inted inp in	(per floating floatin	orat)	\$2.00\$1.00\$15.00\$11.00\$11.00\$4.00\$280.00\$315.00\$290.00\$290.00\$268.00\$288.00\$343.00
	3A 3B 3E 4A 4D 5A 8AC 9_A 10E 10F 10K 11C	Alarm flasher Manual alarm High water al (Available on Redundant of (select option Redundant of (must select 4/ Thermal cuto (for pumps w Seal failure c Auxiliary alarn Display board counter, alarn Pump overlos specify ampe Example: 912. 0-30 FLA 30-100 FLA Lockable late Lightning arra control and ala Anti-condens NEMA 1 remo (must select op NEMA 4X rem	reset arm float (Ily when S f	are requir are requir ust select nsor aut witch lead indicate from C ETM cou fincluded of number pump. select pump mombined) er panel	ect 17 option pplication red) 17 option. o reset ads) or (2 wire moter, eve as standar 9 followe	on)	\$50.00 \$90.00 \$25.00 \$55.00 \$25.00 \$40.00 \$40.00 \$160.00 \$40.00 \$100.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00		16A 16B 16C 17C 17D 17D 17H 17J 24E 24F 24G 22H 22S 33D 33E 33G 33H 34E	10' con 15' con 30' co 40' co Senso Senso SJE M SJE M Senso C-Leve C-Leve C-Leve C-Leve No C-L EZcon EZcon EZcon EZcon sealine EZcon sealine	rd in lierd in lierd in lierd in lierd in lierd in lier I leath or Float illiAmphilliA	eu of 2 eu of	20' (pee 20	r float) r float) r float) r weigh y weigh pe clam ternall pp ♠ (p ith 4' v ith 8' v ith 8' v i/10' flo r/20' flo r/10' flo	inted Anted Anted App (I) y weight went turent turent turent turent turent turent turent turent (3) pats (3) pa	(per float for float f	oat)	\$2.00\$1.00\$15.00\$15.00\$11.00\$7.00\$4.00\$280.00\$285.00\$290.00\$290.00\$290.00\$268.00\$288.00\$288.00
	3A 3B 3E 4A 4D 5A 8AC 9_A 10E 10F 10K 11C 11D	Alarm flasher Manual alarm High water al (Available on Redundant of (select option Redundant of (must select 4/ Thermal cuto (for pumps w Seal failure c Auxiliary alarn Display board counter, alarn Pump overloa specify ampe Example: 912 0-30 FLA 30-100 FLA Lockable latc Lightning arra control and ala Anti-condens NEMA 1 remo (must select of NEMA 4X rem (must select of	reset arm float (Ily when S f	are requir ust select unmber upumb.	ect 17 option oplication 17 option o reset ads) or (2 wire	on)	\$50.00 \$90.00 \$25.00 \$55.00 \$25.00 \$40.00 \$40.00 \$100.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00		16A 16B 16C 17C 17D 17D 17H 17J 24E 24F 24G 22H 22S 33D 33E 33G 33H 34E	10' con 15' con 30' co 40' co 40' co Senso Senso SJE M Senso C-Leve C-Leve C-Leve No C-Leve No C-Leve EZcon EZcon EZcon EZcon sealing EZcon sealing EZcon	rd in lierd in lierd in lierd in lierd in lierd in lier I level I lilliamp lilliamp lilliamp lilliamp lilliamp lilliamp lilliamp I l	eu of 2 eu of	20' (pee 20	r float) r float) r float) r weigh y weigh pe clam ternall pp ♠ (p ith 4' v ith 8' v ith 8' v i/10' flo r/20' flo r/10' flo r/20' flo r/10' flo r/20' flo r/10' flo r/20' flo	inted the first property of the first proper	(per float for float flo	oat)	\$2.00\$1.00\$15.00\$11.00\$11.00\$4.00\$280.00\$315.00\$290.00\$290.00\$268.00\$288.00\$343.00
	3A 3B 3E 4A 4D 5A 8AC 9_A 10E 10F 10K 11C 11D 12B	Alarm flasher Manual alarm High water al (Available on Redundant of (select option Redundant of (must select 4/ Thermal cuto (for pumps w Seal failure c Auxiliary alarn Display board counter, alarn Pump overloa specify ampe Example: 912 0-30 FLA 30-100 FLA Lockable late Lightning arra control and ala Anti-condens NEMA 1 remo (must select op NEMA 4X rem (must select op Customer suj enclosure by	reset arm float (Ily when S f	are requir ust select insor aut witch lead indicate instruction i	ect 17 option oplication red) 17 option. o reset ads) or (2 wire unter, eve as standa 9 followe	on)	\$50.00 \$90.00 \$25.00 \$55.00 \$40.00 \$40.00 \$160.00 \$40.00 \$100.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00		16A 16B 16C 17C 17D 17H 17J 24E 24F 24G 22H 22S 33D 33E 33G 33H 34E	10' con 15' con 30' con 40' con Senso Senso SJE M SJE M Senso C-Leve C-Leve C-Leve No C-Leve No C-Leve EZcon EZcon EZcon EZcon EZcon EZcon sealing EZcon sea	rd in lierd in lierd in lierd in lierd in lierd in lier Ir Float in Float i	eu of 2 eu of	20' (pee 20	r float) er float) er float) v weigh v weigh pe clam ternall ith 4' v ith 4' v ith 8' v i/10' flo v/20' flo	inted the first tend of the fi	(per float f	oat)	\$2.00\$1.00\$15.00\$11.00\$11.00\$11.00\$11.00\$280.00\$310.00\$285.00\$290.00\$290.00\$268.00\$343.00\$343.00
	3A 3B 3E 4A 4D 5A 8AC 9_A 10E 10F 10K 11C 11D 12B	Alarm flasher Manual alarm High water al (Available on Redundant of (select option Redundant of (must select 4/ Thermal cuto (for pumps w Seal failure c Auxiliary alarn Display board counter, alarn Pump overloa specify ampe Example: 912 0-30 FLA 30-100 FLA Lockable late Lightning arra control and ala Anti-condens NEMA 1 remo (must select op NEMA 4X rem (must select op Customer su	reset arm float (Ily when S f	are requir ust select unumber upumb. select pu ust select unumber unumbe	act 17 option oplication red) 17 option o reset ods) or (2 wire content eve as standar 9 followe	on)	\$50.00 \$90.00 \$25.00 \$55.00 \$25.00 \$40.00 \$40.00 \$100.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00 \$40.00		16A 16B 16C 17C 17D 17H 17J 24E 24F 24G 22H 22S 33D 33E 33G 33H 34E	10' con 15' con 30' con 40' con Senso Senso SJE M SJE M Senso C-Leve C-Leve C-Leve No C-Leve No C-Leve EZcon EZcon EZcon EZcon EZcon EZcon sealing EZcon sea	rd in lierd in lierd in lierd in lierd in lierd in lier Ir Float in Float i	eu of 2 eu of	20' (pee 20	r float) er float) er float) v weigh v weigh pe clam ternall ith 4' v ith 4' v ith 8' v i/10' flo v/20' flo	inted the first tend of the fi	(per float f	oat)	\$2.00\$1.00\$15.00\$15.00\$11.00\$11.00\$280.00\$310.00\$285.00\$290.00\$290.00\$268.00\$324.00\$343.00\$343.00\$388.00