

· Universal intermittent pilot gas ignition control

Gas Ignition Control

- · Patented circuitry for enhanced operation
- Provides ignition sequence, flame monitoring and safety shutoff for single/dual rod intermittent pilot control applications
- For gas fired furnaces, boilers and other heating applications
- · Switch selectable pre-purge and ignition trials with permanent lock
- · Works with or without vent damper connected
- · Works with both Natural and LP gas systems

Installation, Operation & Application Guide

For more information on our complete range of American-made products - plus wiring diagrams, troubleshooting tips and more, visit us at **www.icmcontrols.com**



Certified to

ANSI Z21.20

Low cost.

replacement

ignition control

DANGER!

Only trained personnel should install or service heating equipment. When working with heating equipment, be sure to read and understandall precautions in the documentation, on labels, and on tags that accompany the equipment. Failure to follow all safety guidelines may result in damage to equipment, severe personal injury or death.

CAUTION!

Failure to turn off gas and electric supplies can result in explosion, fire, personal injury or death.

Specifications

Operating Temperature:

- **Minimum** ambient temperature rating is -40°F (-40°C)
- Maximum ambient rating when used with 2.0 Å main valve is 165°F (74°C) Status LEDs:
- Green Status provides system status and error codes
- Yellow Flame LED indicates flame presence and flame strength
- Control Voltage: Line 24 VAC (18-30 VAC) 50/60 Hz
- Flame Current: Typical
- Anticipator Setting: 0.3 A plus valve load @ 24 VAC Trial for Ignition: See Table 1 on reverse side
- Prepurge: See Table 1 on reverse side
- Flame Failure Response Time: 2 seconds maximum
- Typical Gas Control: Honeywell models VR8204 and VR8304
- Relative Humidity: 0% to 95% non condensing
- Note: The ICM2918 flame sensor operates off of 24 VAC directly; flame currents of less than one micro ampere are typical.

Application

The ICM2918 Universal Intermittent Pilot Gas Ignition Control Module replaces many popular flame rectification type of intermittent pilot ignition (IPI) modules, including those manufactured by Honeywell, Robertshaw, and Johnson Controls. Replaces modules that feature: Natural or LP gas

- With or without integral damper connector Non-100 percent shutoff, 100 percent shutoff/lockout, or 100 percent shutoff/continuous retry
- Pilot burners with flow rates of 1,500 Btu/h or less
- · Single (local sense) or dual (remote sense) rod flame sensing
- Shutoff/lockout times of 15 seconds or longer
- Prepurge configurable to 30 seconds or no prepurge

For more details on the key features included in the ICM2918 control, as well as a cross reference list of controls that the ICM2918 will replace, please see Table 1 and Table 2 on the back of this guide, or visit our web site at www.icmcontrols.com

Package Contents

The following is included in the package with the **ICM2918** control:

- · Easy-to-use instructions
- · Accessories required to adapt the existing spark cable (Rajah adapter) to the spark terminal on the control module
- · Fault code LED label to affix to the appliance
- The ICM2918 control also features the following:
- High voltage spark, pilot burner ignition control
- · Flame rectification circuit for monitoring flame presence
- Monitoring of 24 VAC, pilot, and main gas valve
- · Two status LEDs to aid in operation and troubleshooting
- Vent damper connection

| Connects to REMOTE SENSE conne rod installations (local flame sensing) * * Note: For remote flame sensing i (separate spark and senso jumper wire as close to the as possible and remove. | nstallations r rods), clip the | Flame Sensor connector • For single rod installations: connect the SENSE JUMPER WIRE to this terminal connector. | Locks of (See "S at the ri |
|---|-----------------------------------|--|---|
| | | For dual rod installations: connect FLAME SENSE WIRE from the burner/igniter to this terminal connector | |
| 24V Terminal | TH-W Term | iinal ot connector for heat call signal from therm | |
| | | GND Terminal | 24 Re |
| | - PV Terminal | Burner ground | |
| | Pilot valve cor | nnection | |
| | Connector for vent damper | Connector for vent damper connection (used TH-W Term 24 VAC / Ho 24V Terminal Optional: 24 VAC power connection for vent PV Terminal Pilot valve con | P1 Connector Connector for vent damper connection (used to control a connected damper in atmosp) TH-W Terminal 24 VAC / Hot connector for heat call signal from therm 24V Terminal Optional: 24 VAC power connection for vent damper PV Terminal Burner ground Pilot valve connection |

High voltage sparking electrode

Mounting and Installation

- If possible, mount the ICM2918 control in the same position and using the same mounting holes as the unit you are replacing. If you need to reposition the control, mount the ICM2918 using four screws and at a distance no greater than 3 ft. away from the pilot
- · Connect the thermostat wire (used for a heat call) to the TH-W terminal. The heat call powers the unit
- · Connect common from the control transformer to 24V GND terminal
- Make the remaining PV, MV/PV and MV gas control connections to the appropriate terminals on the control module

1. When the thermostat initiates a call for heat, the spark source

2. The pilot valve opens; gas flows to the pilot burner for the

3. The control module initiates a spark and attempts to light the

4. A flame rectification circuit checks for the presence of the pilot

5. Upon flame detection, the spark source is shut off and the

and the pilot valve relay become energized.

- ensure the spark cable does not come in direct contact with a metal surface
- If necessary, use the Rajah adapter to make the connection to the spark terminal on the

• Grounding

- Make a ground connection from burner bracket mounting screw to BRN GND terminal on the board

Burner

- Ensure that the spark gap is close to 1/8 in.

Pilot flame

- Make sure it is blue, steady and envelopes 3/8 to 1/2 in. of the flame rod. If necessary adjust pilot flame by turning the pilot adjustment screw on the gas control

• Damper

- If part of the system plug the damper cable to P1 connector on the control module
- If the plug is removed and the vent damper connector is plugged in instead, then an internal fuse will blow on power up. The control will not operate without a vent damper or with the plug
- Connect 24 VAC hot from the control transformer to 24V terminal on the control module when the Damper assembly is used

Operation

Main Burner Operation

- 1. The main valve opens, allowing gas to flow to the main burner. Here, the pilot flame ignites the gas.
- ** Note: A short delay occurs when main valve opens in order to allow the pilot flame to stabilize as the main gas liahts.
- 2. With the system in run mode, the flame rectification circuit will continuously monitor for the presence of the pilot flame.
- 3. In the event of pilot flame loss, the **ICM2918** will shut off both the pilot valve relay and the main valve relay for 100% gas shutoff.

- Spark lanitor

- 1 Power supply provide disconnect mean 2 Alternate limit controller location. 3 Maximum cable length: 3 Ft. [0.9 M].
- burner and in a place that allows for the most direct spark cable route.

Spark cable specifications

- Spark Cable Length: 36" maximum
- Spark Cable Voltage Rating: >10,000 (preferably higher)
- To ensure maximum spark voltage, plastic or ceramic insulators should be used to
- control module
- For added safety, both ends of the spark cable should be protected with insulated boots

Trial for Pilot Ignition

main valve relav is energized.

ignition trial time.

pilot flame.

flame

| onnections | | | ttings and Adju | istment | 5 | | |
|--|--|---|---|--|--|------------------------|---------------|
| Remote Sense | P4 (Jumper) | Settings and Adjustments | Jumper | Action | to lock the control's | operating | sequence |
| Flame Sensor connector For single rod installations: connect the SENSE JUMPER WIRE to this terminal connector. For dual rod installations: connect FLAME SENSE WIRE from the burner/igniter to this terminal connector | Locks out DIP switch settings (See "Setting and Adjustments at the right".) | DIP Switch (S1) Settings: Many ignition controls may be replaced with the ICM2918 cont switch settings for the most popular competitive models can be Table 2 on the reverse side of this guide. The table to the right shows lockout control of DIP switch timing. WARNING: Ignition control should not be powered before setting switches. | rol. The DIP e found in g settings. | The P4 Jumper locks in the operating sequence selected by the DIP switch settings. Following installation and checkout, pull the P4 jumper to lock the DIP switch settings and ensure proper system operation. ** Note: For safety, the ignition control locks the DIP switch settings after the 10th "heat call" cycle regardless of the jumper being removed. NT: Reinstalling the jumper once it has been removed and/or the DIP switch settings have been locked will not reset the DIP switch settings. | | | |
| to control a connected damper in atmospher | ric appliances) | Dranurga and Trial for Ignitian Devenators | | | | | |
| | | Prepurge and Trial for Ignition ParametersTable to the right displays preferred times for Prepurge (SW1). | and Trial for | Prepurge | Trial For Ignition | SW1 | SW2 |
| | | Ignition (SW2). | | None | 90 seconds | OFF | OFF |
| i nal it connector for heat call signal from thermos | tat | | | 30 seconds | 90 seconds | ON | OFF |
| | | | | None | 15 seconds | OFF | ON |
| damper | | | | 30 seconds | 15 seconds fault factory settings an | ON e in hold | ON |
| | | | | | | | |
| Burner ground inection | | And And POT | S1 DIP Switch 2 S1 DIP Switch 1 P4 Jumper | ON 1 | 2 DIP Swit Factory pre shown (OF SW1 and S | eset as F) for |) |
| | | Wiring Diagrams | | | | | |
| Power supply – provide disconnect m Alternate limit controller location. Maximum cable length: 3 Ft. [0.9 M]. Controls in 24V circuit (NOTE: must r | eans and overload protection as required. not be in ground leg to transformer). | 5 Substitute board plug with damper plug in a system with a vent damper 6 Jumper Wire: For single rod applications: connect to remote sense connector. For dual rod applications: remove (clip as close to board as possible) | | or wire from the i | gniter/sensor assembly | to remote | e sense conne |
| ICM291 atmospheric burner | - | ICM2918 atmospheric burner / no vent damper | ICN power-assist | 12918 ted combust | tion | | |
| MV/ GND 24V MV PV PV (BRN) GND 24V TH- | S REMOTE SENSOR | MV/ GND 24V 5 REMOTE MV PV PV (BRN) GND 24V TH-W P1 SENSOR SPARK | MV/ GND 24V MV PV PV (BRN) GND | 24V TH-W P1 | REMOTE SENSOR 6 | | |

ICM2918 Settings and Adjustments

1 -0N-0-

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Mair

Ground

Pilot Gas Supply

Pilot L COM

2nd erator Operator

Dual Valve Combi Gas Control

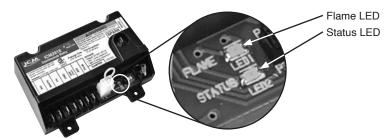
Pilot Burne

rator Operator 2 1 -<u>01ko</u>--L1 (Hot Pilot Burne Ground Pilot Gas Supply

lumper wire clipped 3 Two Ro Pilot Bur Ground L2 L1 (Hot) Pilot Gas Supply ensor wire from ignite

Flame and Status LED Locations

The ICM2918 has two LEDs; one for flame sensing (Yellow) and one for system status (Green). Refer to the Flame Code charts on the reverse side of this application for more details.



Failed Trial for Pilot Ignition

- 1. The ICM2918 is designed to operate with multiple trials for ianition (TFI).
- 2. When no pilot flames is sensed during the TFI period, the ignition control shuts off the spark and pilot gas (100% shutoff).
- 3 The control will enter a five-minute lockout period before the next TFI cycle will begin
- ** Note: Continuous TFI attempts will be made until a flame is sensed or the call for heat is satisfied.

While NOT recommended the five-minute lockout period can be bypassed by manually ending the call for heat or removing and restoring system power.

Yellow and Green LED Status Codes

| | Yellow LED Flame Strength Codes | | | | | | |
|---------------------------|--|---|--|--|--|--|--|
| Yellow LED Flash Code* | Indicates | Recommended Service Action | | | | | |
| Steady (1/2 sec.) | Flame signal OK | N/A | | | | | |
| 2 | Flame signal is weak May also show for few seconds on pilot flame light off | Routine maintenance is recommended to prolong system work without service-clean the flame rod, ensure steady pilot flame and enveloping the flame rod | | | | | |
| 1 | Flame signal is marginal May also show for few seconds on pilot flame light off | Maintenance is recommended to avoid service in a near future-clean the flame rod, ensure steady pilot flame and enveloping the flame rod, ensure good burner ground connection and flame sense wiring | | | | | |
| OFF | Flame signal is below threshold | Check for burner ground connection and flame sense wiring, clean the flame rod, ensure steady pilot flame and enveloping the flame rod | | | | | |

* Flash Code Key:
 – Steady: Constant ½ second bright.
 – LED flashes "X" times, followed by two seconds off before sequence repeats.

| Green LED Flame Codes | | | | | |
|-------------------------------|--|---|--|--|--|
| Green LED flash Code (X+Y) | Indication | Recommended Service | | | |
| OFF | No call for heat from the thermostat | N/A | | | |
| Steady (1/2 sec.) | Heat call, normal operation | N/A | | | |
| 2 | Flame wasn't sensed during trial for ignition-unit in five minute retry period | Remove the heat call and check the following: burner gas supply, spark wiring, flame sense wiring, and burner ground to unit GND connection. Clean the flame rod. Initiate a call for heat and ensure a steady pilot flame enveloping the flame rod | | | |
| 3 | Flame out during run mode | Ensure steady pilot flame enveloping the flame rod. Check burner ground to unit GND connection. Clean the flame rod. | | | |
| 4 | Flame out of sequence | Replace gas valve if pilot flame is present Recycle call for heat. Replace the unit if pilot flame is not present and unit senses flame | | | |
| 5 | Damper related error: - Required but not present - Failed to open within a minute - Failed to close within a minute | Check 24 VAC connection to 24V on the unit and damper connection Remove the heat call, pause for a minute, and apply the heat call. If problem persists replace the damper | | | |
| 7 | Flame rod grounded or leakage to ground | Check flame sense lead wire for isolation from ground. Check flame rod ceramic body for damages or cracks | | | |
| 8 | Low control voltage (below 19 VAC) | Check transformer voltage when fully loaded. Ensure 24 VAC between TH-W and GND when pilot and main valve are closed | | | |
| 6+2 | Flame wasn't sensed for three consecutive trials for ignition on the same call for heat- unit in five minute retry period | Same as for 2 above | | | |
| 6+3 | Flame out during run mode six times on a same call for heat | Same as for 3 above | | | |
| 6+4 | Flame out of sequence for longer than 10 seconds | Same as for 4 above | | | |
| Constant ON | Error not listed above detected during self-test diagnostic check | Control can be RESET by initiating a "Heat Call". If problem persists, control should be replaced. | | | |

* Flash Code Key:

Steady: Constant ½ second bright.
 Single Flash Code: LED flashes "X" times followed by two seconds off, before sequence repeats.
 X + Y Flash Code: LED flashes "X" times followed by two seconds off, then flashes "Y" times followed by three seconds off, before the sequence repeats.

Table 1 - ICM2918 Universal Intermittent Pilot Gas Ignition Controls

| Igniter-Sensor Type | Valve Current Rating @ 24 VAC | Prepurge Timing | Trial for Pilot Ignition | Ignition Sequence Type | Ignition Sequence (after prepurge if prepurge is selected) | Integral Damper Connector |
|--|-------------------------------------|---|--|------------------------------|---|--|
| Combination (single rod; local flame sensing), or Separate (dual rod; remote flame sensing). | 1.0 A Pilot, and, 2.0 A Main | None or 30 seconds (field selectable) | 15 or 90 seconds (field selectable) | Retry | Spark / pilot gas ON until light off or trial for ignition (TFI) ends: Pilot gas and spark OFF (100% shutoff) if pilot fails to light; unit enters five minute lockout before a new TFI is initiated. This sequence continues until light off, or heat call ends. Trial for ignition restarts immediately if established flame is lost. | Included for use as needed: If initially installed with damper attached, unit must always have a vent damper connected. |

| ndor / Model | | |
|--------------|--|--|
| 24-00 | | |
| | | |

1003-3, 1003-300

| Camsat Vendor / Model | SW1 | SW2 | Johnson Controls Vendor / Model | SW1 | I SW |
|--|-------------------|---------------------------------------|--|------------|-------|
| IPI-24-00 | OFF | | CSA35A-617R, CSA35A-618R, CSA42A-600R, CSA42A-601R, CSA42A-602R, CSA42A-603R, CSA42A-604R, CSA43A-600R, CSA44A-600R, CSA45A-601R, CSA45A-602R, CSA46A-600R, CSA48A-600R, CSA49A-600R, CSA49 | OFF | |
| Fenwall | CW/4 | CIWO. | G60AAA-1, G60AAG-1, G60AAG-2, G60AAG-3, G60AAG-4, G60AAG-5, G60AAG-6, G60AAG-7, G60CAA-1, | | +- |
| /endor / Model 15-203025-005, 05-203026-005 Honeywell | OFF | SW2 OFF | G60CAA-3, G60CAG-1, G60CAG-2, G60CAG-3, G60CAG-4, G60CAG-5, G60CAG-6, G60CAG-7, G60CAG-8, G60CAG-9, G60CBA-1, G60CBA-2, G60CBA-3, G60CBG-1, G60CBG-2, G60CBG-3, G60CBG-4, G60CBG-5, G60CBG-6, G60CBG-7, G60CBG-8, G60CBG-9, G60CBG-10, G60CBG-11, G60CBG-12, G60CBG-13, G60CBG-14, | | |
| /endor / Model | SW1 | SW2 | G60CBG-15, G60CBG-16, G60CBG-17, G60CCA-1, G60CCG-1, G60CPG-1, G60DBG-1, G60DCG-1, G60DCG-2, G60DCG-3, G60DCG-4, G60PAG-1, G60PAG-2, G60PAG-3, G60PAG-5, G60PAG-6, G60PAJ-1, | | |
| S86A1001, S86A1019, S86A1027, S86A1035, S86B1009, S86B1017, S86B1025, S86C1007, S86C1015 | OFF | OFF | G60PAK-1, G60PAK-2, G60PFH-1, G60PFH-2, G60PFL-1, G60PFQ-1, G60PVL-1, G60QAG-1, G60QAG-2, | | |
| S86C1023 | OFF | ON | G60QAG-3, | | |
| S86C1031, S86C1049, S86C1056, S86D1005 | OFF | OFF | G60QAG-4, G60QAK-1, G60QBG-1, G60QBG-2, G60QBG-3, G60QBG-4, G60QBG-5, G60QBG-6, G60QBG-7, | | |
| S86D1013 S86D1021, S86E1002, S86E1010, S86E1028, S86E1036, S86E1044, S86E1051, S86E1069, S86E1077, S86E1101, S86E1119, S86E1127, S86F1000, S86F1018, S86F1026, S86F1042, S86F1059, S86F1067, S86F1075, S86F1083, S86F1091, S86G1008, S86G1016 S86G1024 | OFF OFF OFF | ON OFF ON | G60QBG-8, G60QBG-9, G60QBH-1, G60QBK-1, G60QBK-2, G60QBK-3, G60QBL-1, G60QBL-2, G60QCG-1, G60QCJ-1, G60QCL-1, G60QDG-1, G60QFL-1, G60QGH-1, G60QHL-1, G60QHL-2, G60QJL-1, G60QLG-1, G60QLK-1, G60QRH-1, G60QRH-2, G60QRH-2, G60QRH-3, G60QRL-2, G60QRL-3, G60QSL-1, G60QTH-1, G60QTL-1, G60RAG-1, G60RAK-1, G60RBG-1, G60RBG-2, G60RBG-3, G60RBK-2, G60RCG-1, G60RCG-2, G60RCJ-1, G60RDG-1, G60RDK-1, G60RBCL-1, G60RHP-1, G60RHP-1, G60RPL-1, G60RDK-1, G60RDK-1, G60RCH-1, G60RHP-1, G60RPL-1, G60RP | OFF | 0 |
| S86G1032, S86G1057, S86G1073, S86H1006 | OFF | OFF | G60RSL-1, G60TTL-1, G60ZAG-1, G60ZAG-2 | | + |
| S86H1014 | OFF | ON | G65BBG-1, G65BBG-2, G65BBG-3, G65BBG-4, G65BBG-5, G65BBG-6, G65BBG-7, G65BBG-8, G65BBM-1, G65BBM-2, G65BBM-3, G65BBM-4, G65BCG-1, G65BCM-1, G65BFG-1, G65BFM, G65BKG-1, G65BKG-2, G65B- | | |
| S86H1022, S86H1048, S86H1055 | OFF | OFF | KG-3, G65BKM-1, G65BKM-2, G65BKM-3, G65BLG-1, G65BLG-2, G65DBG, G65DBM-1, G65DBM-2, G65DBM-3, | OFF | 0 |
| S86H1063 | OFF | OFF | G65DCM-1, G65DFG, G65DFM-1, G65DKG, G65DKM, G65DKM-1, G65DLM-1, G65FBG, G65FFG, G65FKG | | |
| S86H1089, S86H1097, S86H1105 | OFF | OFF | G66AG-1, G66AG-2, G66BG-1, G66MG-1, G66MG-2, G66NG-1 | OFF | 0 |
| S86H1113 | OFF | OFF | G67AG-3, G67AG-4, G67AG-7, G67AG-8, G67AG-9, G67AG-10, G67AG-11, G67BG-2, G67BG-3, G67BG-4, | OFF | 0 |
| S86H1121 | OFF | OFF | G67BG-5, G67MG-1, G67MG-2, G67MG-3, G67MG-4, G67NG-2, G67NG-4 | | |
| S86H1139 | OFF | ON | G600AX-1, G600AX-2, G600AX-3, G600AY-1, G600LX-1, G600LX-2, G600LY-1, G600MX-1, G600NX-1, G600RX-1 | OFF | C |
| S86H1147, S90A1005, S90B1003, S90B1011 | OFF | OFF | G670AW-1, G670AW-2, G670GA-1 | OFF | 0 |
| S860C1000, S860D1009 | ON | OFF | G770LGA-1, G770LGA-2, G770LGC-1, G770LGC-2, G770LGC-3, G770LGC-4, G770LHA-1, G770LHA-2, G770L- | | |
| S860D1017 | ON | ON | HC-1, G770MGA-1, G770MGA-2, G770MGA-3, G770MGC-1, G770MGC-2, G770MGC-3, G770MGC-4, G770MGC-5, G770MGC-6, G770MHA-1, G770MHA-2, G770MHC-1, G770NGA-1, G770NGC-4, G770NGC-5, G770NGC-6, | OFF | |
| S8600A1001, S8600B1009 | OFF | OFF | G770NGC-7, G770NHA-1, G770NHC-1, G770RGA-1, G770RHA-1, G770RHA-2 | | |
| S8600B1025, S8600B3005 | OFF | ON | G775RGA-1, G775RHA-1, G775RHA-2 | OFF | |
| S8600B3013, S8600C1015, S8600C3003, S8600F1000, S8600F1034, S8600F1042, S8600H1006 | OFF | OFF | G779 | OFF | |
| S8600H1014 | OFF | ON | Y79ABC-1, Y79ABC-2, Y79ABC-3, Y79ABC-4, Y79ABC-5, Y79ABC-6, Y79ABC-7, Y79ABD-1, Y79ABCD-2, Y79B- | - | - |
| S8600H1022, S8600H1048, S8600H1055 | OFF | OFF | BA-1, Y79BBA-2 | OFF | C |
| S8600H1063 | OFF | ON | | | |
| S8600H1071, S8600H1089, S8600H1097, S8600H1105, S8600H3002 | OFF | OFF | RobertShaw | | |
| S8600H3010 | OFF | ON | Vendor / Model | SW1 | _ |
| S8600M1005, S8600M1013, S8600M1021, S8600M2003, S8600M3001, S8600M4009, S8610A1009, S8610B1007, S8610B1015 | OFF | OFF | 780-001, 780-002 780-003 | OFF ON | С |
| S8610B1023, S8610B3003 | OFF | ON | 780-845, 780-715, 780-735, 780-736, 780-737 | OFF | _ |
| S8610C1005, S8610C1013, S8610C3001, S8610F1008, S8610F1016, S8610F1024, S8610F1032 | OFF | OFF | SP715, SP715A, SP735, SP735D, SP735L | OFF | _ |
| S8610H1004 | OFF | ON | USI715U | OFF | 0 |
| S8610H1012 | OFF | | White-Rodgers | | |
| S8610H1020 | OFF | ON | Vendor / Model | SW1 | I S |
| S8610H1038, S8610H1046, S8610H1053 | OFF | OFF | 50D49-350, 50D49-360 | OFF | |
| S8610H1061 | OFF | ON | 50D49-361 | ON | C |
| S8610H1079, S8610H1095, S8610H3000 | OFF | OFF | 50D49-401 | OFF | C |
| S8610H3018 S8610H3026. S8610M1003 | OFF OFF | ON OFF | | | |
| S8610H3026, S8610W1003 S8610M1011 | OFF | OFF | | | |
| S8610M1029, S8610M3009 | OFF | OFF | | | |
| S8610M3017 | OFF | ON | | | |
| ICM2901003, ICM2901011 | OFF | OFF | | | |
| S8620C1003, S8620C1011 | OFF | ON | | | |
| S8620E1003, S8620E1011 S8620H1002 | OFF | OFF | | | |
| S8620H1010 | OFF | ON | | | |
| S8620H1028 | OFF | OFF | | | |
| \$8660D1002 | ON | OFF | | | |
| S8660D1010 | ON | ON | | | |
| S8660J1008, S8660J1016, S8660J1024, S8660K1006, S8660K1014, S8660K1022, S8670D1000, S8670D1018 | ON | OFF | | | |
| S8670D1026, S8670D3006 | ON | ON | | | |
| S8670D3014, S8670E1007, S8670E3003 | ON | OFF | ONE-YEAR LIMITED WARRANTY | | |
| S8670J3002 | ON | ON | The Seller warrants its products against defects in material or workmanship for a period of one (1) year from the date of the seller is limited at the entire to reach reaching a period of a period of the purchase of the seller is limited. | | |
| S8670J3010, S8670K3000 | ON | OFF | The liability of the Seller is limited, at its option, to repair, replace or issue a non-case credit for the purchase prices of t are provided to be defective. The warranty and remedies set forth herein do not apply to any goods or parts thereof wh | | |
| S8680J1004 | ON | ON | subjected to misuse including any use or application in violation of the Seller's instructions, neglect, tampering, improp incorrect installation or servicing not performed by the Seller. In order to permit the Seller to properly administer the wa | er stora | ge, |
| | | · · · · · · · · · · · · · · · · · · · | shall: 1) Notify the Seller promptly of any claim, submitting date code information or any other pertinent data as reques | sted by tl | he Se |
| HSC | | | 2) Permit the Seller to inspect and test the product claimed to be defective. Items claimed to be defective and are dete to be non-defective are subject to a \$30.00 per hour inspection fee. This warranty constitutes the Seller's sole liability h | ermined b | by Se |
| Vendor / Model | | SW2 | in lieu of any other warranty expressed, implied or statutory. Unless otherwise stated in writing, Seller makes no warran | | |
| 1003-3 1003-300 | OFF | OFF | depicted or described berein are fit for any particular nurpose | - | 5 |

Table 2 - ICM2918 Replaces the follow controls:

| HSC | | |
|-----|-----|-----|
| | SW1 | SW2 |
| | OFF | OFF |

to be non-defective are subject to a \$30.00 per hour inspection fee. This warranty constitutes the Seller's sole liability hereunder and is in lieu of any other warranty expressed, implied or statutory. Unless otherwise stated in writing, Seller makes no warranty that the goods depicted or described herein are fit for any particular purpose.

Patented: Fail Safe Relay Driver (#5,917,691) PWM relay actuator circuit (#5,930,104)



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