### FEATURES
- Automatic or Manual Control of Pump Discharge Pressure or Engine Speed
- Large Control Knob or Increase and Decrease Buttons are Easy to Operate with a Gloved Hand
- Programmable Preset, Interlocks, Units, and Alarm Settings
- 300psi or 600psi Discharge and Optional Intake Mounted Pressure Sensors
- Always Starts in Pressure Mode at Idle RPM
- Displays and LEDs Automatically Adjust for Day and Night Conditions
- Red IDLE Button Returns Engine to Curb Idle Speed
- Recognition of No, Low or Changing Water Conditions with Automatic Response
- Automatically Limits Increase of Pressure when in RPM Mode
- NFPA Interlock Signal LED Indicators
- Interlock Signal Recognition with LED Indicators
- Retains Warning History
- J1939 CAN Bus Engine Information and Control
- Programmable High idle Operation

### MODELS

<table>
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<tr>
<th>Model Description</th>
<th>IC Part Number</th>
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<tbody>
<tr>
<td>Governor with Push Button +/- / Intake Sensor Input</td>
<td>3050621</td>
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<tr>
<td>Governor with Push Button +/- / Intake Sensor Input</td>
<td>3050622</td>
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<tr>
<td>Governor with Knob +/- / Controller</td>
<td>3050623</td>
</tr>
<tr>
<td>Governor with Knob Controller / Intake Sensor Input</td>
<td>3050624</td>
</tr>
</tbody>
</table>

### ENGINE COMPATIBILITY

- Cummins J1939
- Detroit Diesel
- Scania
- Navistar
- Ford
- Cat J1939
- Generic Analog Interface
GOVERNOR SPECIFICATIONS

Operating Voltage +9VDC to 32VDC
Current consumption at 13.6 VDC with no loads 500mA
Current consumption at 27.6 VDC with no loads 300mA
Maximum Output Current Sensor (+5VDC) = 250mA (polythermal fuse protected to 300mA); Alarm Active = 700mA (ground polarity output)
Temperature Range -40°C to +85°C (-40°F to +185°F)
Ingress Protection IP67
CAN Specification SAE J1939, 250 or 500 Kbits/second

Electrical Performance
Internal thermal fuse
CAN bus protected for heavy duty trucks (24V)
Transient voltage protected to SAE J1113 specification for heavy duty trucks (24V)
Load dump voltage protected to SAE J1113 specification for heavy duty trucks (24V)

Electrical Protection

Environmental Performance (designed to meet)

Mechanical Performance (designed to meet)

DIAGNOSTICS

Status Indicators
- Engine RPM
- Four daylight bright LED digits more than 1/2” high
- Check engine and stop engine warning messages
- Engine oil pressure; shown on a tricolor green/yellow/red icon
- Engine coolant Temp; shown on a tricolor green/yellow/red icon
- Transaxle Temp; shown on a tricolor green/yellow/red icon
- Battery voltage; shown on a tricolor green/yellow/red icon
- Pressure and RPM operating mode LEDs
- Alarm and BPR setting
- Throttle ready LED
- Ok To Pump LED

Warning Messages and Indicators
- High Battery Voltage
- Low Battery Voltage
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only)
- Stop Engine / Check Engine
- Check Transmission

Sensor and Interlock Connector (used on all models): Deutsch DT15-12PA Connector

Terminal Name Description
1A ENGINE (+) REF Analog Engine Control Positive Reference
2A THROTTLE READY Throttle Ready Interlock Input Active High
3A HIGH IDLE High Idle Control Input Active High
4A OK TO PUMP Ok To Pump Interlock Input Active High
5A DISCHARGE SENSOR GND Discharge Sensor Ground
6A DISCHARGE SENSOR REF Intake Sensor +5Vdc Power
7A DISCHARGE SENSOR SIG Intake Sensor Input Signal
8A ENGINE SIGNAL Analog Engine Control Signal
9A ENGINE (-) REF Analog Engine Control Negative Reference
10A PUMP ENGAGED Pump Engaged Interlock Input Active High
11A DELAY RELAY COM (30) Delay Relay Common Input
12A DELAY RELAY N.O. (87) Delay Relay Normally Open Output

Mating connector is Deutsch DT06-12SA with W-12S wedgelock and 0462-201-16141 sockets

Power and CAN Interface Connector For Units without Intake Sensor (Models 3050621 and 3050623): Deutsch DT15-6P Connector

Terminal Name Description
1 SYSTEM POWER Vehicle System Power
2 SYSTEM GROUND Vehicle System Ground
3 ALARM OUT Alarm Output Active Low
4 SAE CAN HI SAE CAN HI Network Signal
5 SAE CAN LO SAE CAN LO Network Signal
6 SAE CAN SHIELD SAE CAN Cable Shield

Mating connector is Deutsch DT06-6S with W-6S wedgelock and 0462-201-16141 sockets

Power and CAN Interface Connector For Units with Intake Sensor (Models 3050621 and 3050623): Deutsch DT15-12PA Connector

Terminal Name Description
18 SYSTEM POWER Vehicle System Power
28 SAE CAN HI SAE CAN HI Network Signal
38 SAE CAN SHIELD SAE CAN Cable Shield
48 IC CAN HI Innovative Controls CAN HI Network Signal
58 INTAKE SENSOR GND Intake Sensor Ground
68 INTAKE SENSOR REF Intake Sensor +5Vdc Power
78 INTAKE SENSOR SIG Intake Sensor Input Signal
88 IC CAN SHIELD Innovative Controls CAN Cable Shield
98 IC CAN LO Innovative Controls CAN Low Network Signal
108 ALARM OUT Alarm Output Active Low
118 SAE CAN LO SAE CAN LO Network Signal
128 SYSTEM GROUND Vehicle System Ground

Mating connector is Deutsch DT06-12SB with W-12S wedgelock and 0462-201-16141 sockets