SERIES 908

ELECTRONIC CONTROL UNIT

- Converts analog input control signals to coil current of a proportional solenoid valve by means of pulse width modulation
- LED-Display integrated in the connector
- Adjustable UP/DOWN ramp control
- Output coil current independent of coil resistance (temperature) and supply voltage variations
- The electronic circuit is integrated in a standard housing according to DIN EN 175301-803, form A
- Parameter setting via PC interface and programming adapter or, optionally, via the switches integrated in the connector

**General Information**

<table>
<thead>
<tr>
<th>Nominal Voltage</th>
<th>12/24 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Current</td>
<td>1.2/2.5A</td>
</tr>
<tr>
<td>Housing</td>
<td>PA</td>
</tr>
<tr>
<td>Cover</td>
<td>PA</td>
</tr>
<tr>
<td>Screw</td>
<td>Zinc plated steel</td>
</tr>
<tr>
<td>Seals</td>
<td>NBR</td>
</tr>
</tbody>
</table>

**Electrical Characteristics**

<table>
<thead>
<tr>
<th>Connector</th>
<th>M12, 5 pins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Specification</td>
<td>DIN EN 175301-803, form A</td>
</tr>
<tr>
<td>Electrical Safety</td>
<td>IEC 335</td>
</tr>
<tr>
<td>Electrical Enclosure Protection</td>
<td>IP65 (EN 60529)</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>12 V...30 VDC (incl. ripple)</td>
</tr>
<tr>
<td>Ramp</td>
<td>Selectable ON/OFF, adjustable between 50 ms to 5 s, Up/Down</td>
</tr>
<tr>
<td>Adjustable Switching Frequency</td>
<td>60 to 1500Hz</td>
</tr>
</tbody>
</table>

**Max. Full Load Current**

<table>
<thead>
<tr>
<th>I_{FL} mA</th>
<th>U_{C} V</th>
<th>I_{C} mA</th>
<th>°C (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200/2400</td>
<td>0 - 10</td>
<td>4 - 20</td>
<td>-20 to 65 (-4 to 149)</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Catalog Number: Proportional Valves for Digital Control Unit</th>
<th>Type</th>
<th>Setpoint</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>202A001V to 202A087V 203B001V and 203B002V 60200001, 60200002, 60200004</td>
<td>01</td>
<td>0 - 10 V</td>
<td>X9085016450100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 - 20 mA</td>
<td>X9085016450200</td>
</tr>
<tr>
<td>202A201V to 202A208V 202A513V</td>
<td>02</td>
<td>0 - 10 V</td>
<td>X9085016450100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 - 20 mA</td>
<td>X9085016450200</td>
</tr>
</tbody>
</table>

1 Refer to the dimensional drawings on the following page

**Proportional Valves Suitable for Control Applications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Series</th>
<th>Illustration</th>
<th>Catalog Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-port proportional valve for pressure control</td>
<td>602</td>
<td></td>
<td>see P308 in the “Pneumatic Components” catalog</td>
</tr>
<tr>
<td>Posiflow/Preclfow proportional solenoid valves, Flapper proportional</td>
<td>202-203, 068</td>
<td>See the “Proportional Technology” catalog</td>
<td></td>
</tr>
</tbody>
</table>
**Dimensions: mm (inches)**

**Dimensional Drawings**

**Type 01**  
Control Unit

**Type 02**  
Adapter from form A to form B

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**Input and Output Signals**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Voltage supply (see “Electrical Characteristics”)</td>
</tr>
<tr>
<td>3</td>
<td>Analog ground 0 V (GND)</td>
</tr>
</tbody>
</table>
| 2   | Setpoint input (differential input)  
The range 0...100% corresponds to an input voltage of 0...10 V or an input current of 4...20 mA  
(depending on version used) |
| 4   | Analog signals |
| 5   | LIN Bus connection  
The parameters for the device can be set via this connection and our programming adapter |

**Accessories**

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight M12 female connector, 5 pins, with screw terminals</td>
<td>88100256</td>
</tr>
<tr>
<td>Right-angle M12 female connector, 5 pins, with screw terminals</td>
<td>88100725</td>
</tr>
<tr>
<td>Supply cable 2m, 2 x 0.25mm², straight connector</td>
<td>88100726</td>
</tr>
<tr>
<td>Supply cable 2m, 2 x 0.25mm², right-angle connector</td>
<td>88100727</td>
</tr>
<tr>
<td>Supply cable 5m, 6 x 0.56mm², straight connector</td>
<td>88100728</td>
</tr>
<tr>
<td>Supply cable 5m, 6 x 0.56mm², right-angle connector</td>
<td>88100729</td>
</tr>
<tr>
<td>Supply cable 10m, 6 x 0.56mm², straight connector</td>
<td>88100730</td>
</tr>
<tr>
<td>Supply cable 10m, 6 x 0.56mm², right-angle connector</td>
<td>88100731</td>
</tr>
<tr>
<td>Adapter DIN EN 175301-803 from form A to form B for Type 02</td>
<td>833-064154</td>
</tr>
<tr>
<td>Programming adapter</td>
<td>X90850164500300</td>
</tr>
</tbody>
</table>

**Installation**

- The control unit can be mounted in any position without affecting operation