Model EL5300-HE
Hall Effect Flow Sensor

Features
- Digital current sinking output
- Bipolar operated with alternating north and south magnetic poles
- Operating speed: 0 to over 100 kHz
- Operating temperature range: -40° to 150°C / (-40° to 302° F)

Leadwire Color Code
Red ...................................... Positive 4-28 VDC
Black.................................... Negative (Signal Common)
Blue, Clear or White............. Signal Output
Suggested Pull-up Resistor = 2 to 6 kΩ, 1/2 Watt

Pull-up Resistor (R1)  The pull-up resistor provides the necessary voltage and current levels to guarantee a logic-1 output whenever the output transistor is in the “off” state. (Some controllers have the pull-up resistor available as a switch setting. Check the controllers manual for availability and proper switch settings.)

\[
V_{\text{supply}} \quad (4-28 \text{ VDC}) \]

\[
\text{Pull-up Resistor Size (kΩ)} = \frac{V_{\text{supply}} \quad (4-28 \text{ VDC})}{\text{Desired Sink Current (0-20 mA)}}
\]

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Supply Voltage (VDC)</td>
<td>4 to 28</td>
</tr>
<tr>
<td>Supply Current (mA max.)</td>
<td>13.5</td>
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<td>Output Type</td>
<td>Sink</td>
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<td>Output Voltage (V) @ 20mA</td>
<td>.40 max.</td>
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<td>20</td>
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<td>Leakage Current (µA max.)</td>
<td>10</td>
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Supply Voltage (VDC) 4 to 28
Supply Current (mA max.) 13.5
Output Type Sink
Output Voltage (V) @ 20mA .40 max.
Output Current (mA max.) 20
Leakage Current (µA max.) 10
Magnetics Type Bipolar

![Diagram of Hall Effect Flow Sensor Wiring and Components]