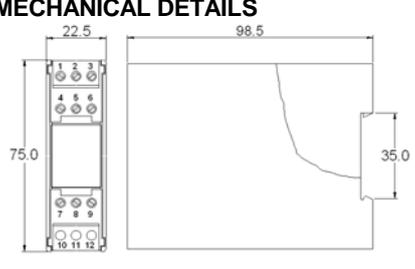


<b>Multi-Function Isolating Signal Converter</b> <b>BM9500 Series</b>		Iss 1 Mar 09
<p>The BM9500 Series first conditions the input signal before feeding it through an opto-isolating circuit. Both the input and the output stages of the instrument are powered from separate secondaries of the inverter maintaining 3 port isolation.</p> <p><b>BM9501: Single Channel, Sample &amp; Hold.</b> Includes a trigger function that will either allow the output to continuously follow the input or hold the last input reading when the trigger function is applied.</p> <p><b>BM9502: Dual Channel, High Select.</b> Output follows the highest input.</p> <p><b>BM9503: Dual Channel, Low Select.</b> Output follows the lowest input.</p> <p><b>BM9504: Single Channel, Peak Select.</b> Output is always at the highest input until remote reset.</p> <p><b>BM9505: Single Channel, Trough Select.</b> Output is always at the lowest input until remote reset.</p>		

<h2 style="text-align: left;">SPECIFICATIONS</h2>			
<p><b>ANALOGUE INPUTS:</b></p> <p><b>D C Current</b> 0-1mA into 1000 ohms 0-10mA into 100 ohms 4-20mA into 62 ohms</p> <p><b>D C Voltage</b> Between 0 to +250 Volts DC Minimum voltage span 1V</p> <p><b>SAMPLE/HOLD TRIGGER or RESET INPUTS</b></p> <p>Volt free contacts (5 volt wetting from the BM9500) N/C Hold or N/O Hold</p> <p>Voltage 4 to 40 VDC into 10K ohms opto coupled</p>	<p><b>OUTPUTS:</b></p> <p><b>DC Current</b> 0 to 10mA into 10 to 2000 ohms 4 to 20mA into 10 to 1000 ohms Other ranges as required Minimum span 1mA Maximum span 20mA</p> <p><b>DC Voltage</b> The voltage output is derived from passing a mA signal through an internal resistor</p> <p>0 to 1 Volt DC thru 51 ohms 0 to 10 Volt DC thru 510 ohms 1 to 5 Volt DC thru 240 ohms Other ranges as required Minimum span 1 Volt DC Maximum span 10 Volt DC</p>	<p><b>SUPPLY:</b></p> <p><b>Power Supply Voltage</b> 8 to 30 Volt DC, with converter to maintain signal to power supply isolation</p> <p><b>Power Required</b> 1.5 Watts Maximum</p> <p><b>Pilot Light</b> Red LED shows Power ON</p> <p><b>Input/Output/Supply Isolation</b> 600 Volts &gt; 20M ohms</p> <p>Note: On the BM9502 &amp; BM9503 the two analogue inputs have a common negative. On the BM9501, BM9504 and BM9505 the 5 volt wetting voltage and analogue input have a common negative.</p>	<p><b>GENERAL:</b></p> <p><b>Resolution</b> A to D conversion, 10bits.</p> <p><b>Response Time</b> &lt;100mS - Step 0 to 65%</p> <p><b>Temperature Coefficient</b> ±0.1% of span/Δ 10°C</p> <p><b>Operating / Storage Temperature Range</b> 0 to +45°C / -20 to +60°C</p> <p><b>Weight</b> 96 gms</p>

<p><b>MECHANICAL DETAILS</b></p> 	<p><b>TERMINATIONS DETAILS</b></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%;"><b>No.</b></td> <td style="width: 30%;"></td> <td style="width: 10%;"><b>No.</b></td> <td style="width: 20%;"></td> </tr> <tr> <td><b>Power Supply</b></td> <td>1</td> <td>-ve</td> <td><b>Output Signals</b></td> <td>7 Active -ve / Passive +ve</td> </tr> <tr> <td></td> <td>2</td> <td>+ve</td> <td></td> <td>8 Active +ve</td> </tr> <tr> <td></td> <td>3</td> <td>Screen</td> <td></td> <td>9 Passive -ve</td> </tr> <tr> <td></td> <td></td> <td>DC Current</td> <td>DC Volts</td> <td>DC Volts</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Dual Input</td> <td>Volt Free Contacts</td> </tr> <tr> <td><b>Analogue Input Signals</b></td> <td>4</td> <td>-ve</td> <td>-ve</td> <td>Com -ve</td> </tr> <tr> <td></td> <td>5</td> <td>+ve</td> <td>+ve</td> <td>A+</td> </tr> <tr> <td></td> <td>6</td> <td></td> <td></td> <td>B+</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>Trigger Input Signals</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>10 -ve</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>11 +ve</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>12 Unused</td> </tr> </table>		<b>No.</b>		<b>No.</b>		<b>Power Supply</b>	1	-ve	<b>Output Signals</b>	7 Active -ve / Passive +ve		2	+ve		8 Active +ve		3	Screen		9 Passive -ve			DC Current	DC Volts	DC Volts				Dual Input	Volt Free Contacts	<b>Analogue Input Signals</b>	4	-ve	-ve	Com -ve		5	+ve	+ve	A+		6			B+					<b>Trigger Input Signals</b>					10 -ve					11 +ve					12 Unused
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<p><b>ORDERING DETAILS</b></p> <p>a) Give identification code, i.e. BM9501</p> <p>b) Give power supply voltage, i.e. 24 Volt DC</p> <p>c) Give details of input signal, i.e. input type (as listed above) and range.</p> <p>d) Give details of output required, both type and range, i.e. 4 to 20mA</p> <p>e) For BM9501, BM9504 and BM9505, give details of Sample/Hold Trigger or Reset type: Voltage or Volt Free Contact.</p> <p>f) For BM9501, BM9504 and BM9505, Give details of Hold or Rest requirement: Voltage (On or Off). Volt Free Contact (Open or Closed)</p>
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