

<b>DC Voltage to Voltage Isolating Signal Converters MIN904, MIN907 &amp; Min908</b>		<b>Iss 1</b>
<b>Function:</b> The MIN904, 907 and 908 are 12 Volt DC powered Isolating Signal Converters with 2 Open Collector Alarm Outputs.		<b>Sep 09</b>
<p>The instrument can accept either a 75mV(MIN904), 20V(MIN907) or 40V(MIN908) factory set input signal. This signal is pre-amplified and conditioned with Zero and Span adjustments in the input stage. The conditioned signal is opto-isolated and amplified to give a 0 to 5V DC isolated output proportional to the input signal.</p>		

<p><b>SPECIFICATIONS</b></p> <p><b>INPUTS:</b></p> <p><b>D C Voltage</b> 0 to 75mV DC 5M ohms or greater (MIN904) 0 to 20V DC 1M ohm or greater (MIN907) 0 to 40V DC 1M ohm or greater (MIN908)</p> <p><b>Isolation</b> Input Fully Floating Isolation 600 Volt AC</p> <p><b>OUTPUTS:</b></p> <p><b>DC Voltage</b> 0 to 5 Volt DC into 10K ohms minimum</p> <p><b>Alarm Outputs</b> 2 x Open Collector Outputs Common to selective +ve or -ve supply rail.</p> <p><b>Contact Ratings</b> Maximum sink or source current 100mA</p> <p><b>Switching Differential</b> &lt;=0.5% of span approx</p> <p><b>Switching Mode</b> Link Selectable - High or Low for Alarm with Outputs ON or OFF for NORMAL, NPN or PNP Output Operation</p>	<p><b>Set Point</b> 2 x blind screwdriver operated multi-turn potentiometers. Adjustment range 2 to 100% of full scale. Setting resolution <math>\pm 0.2\%</math></p> <p><b>SUPPLY:</b></p> <p><b>Power Supplies</b> +10 to +14.7 Volt DC with inverter to maintain signal to power supply isolation</p> <p><b>Power Required</b> Burden 10mA max at 12 Volt DC</p> <p><b>Power Supply Variation Effect</b> <math>\pm 0.1\%</math> max change in output for a supply variation between 10V and 14.7V</p>	<p><b>GENERAL:</b></p> <p><b>Linearity</b> <math>\pm 0.1\%</math> of Full Scale</p> <p><b>Output Ripple &amp; Noise</b> 50mV Peak to Peak Maximum</p> <p><b>Ripple &amp; Noise Rejection</b> Series Mode 40dB at 50Hz Common Mode 120dB at 50 Hz</p> <p><b>Response Time</b> Analogue Output: &lt;400mS for Output changing from 10 to 90% of Full Scale Digital Output: &lt; 1 second including analogue response time</p> <p><b>Temperature Coefficient</b> <math>\pm 0.1\%</math> of span/_ 10°C (for inputs &gt; 100mV)</p> <p><b>Operating Temperature Range</b> 0 to +45°C</p> <p><b>Storage Temperature Range</b> -20 to +60°C</p> <p><b>Operating/Storage Humidity Range</b> 0 to 95% RH non-condensing</p> <p><b>Weight</b> 195 gms (approx)</p>
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<p><b>MECHANICAL DETAILS</b></p>	<p><b>TERMINAL DETAILS</b></p> <table border="0"> <tr> <td>Terminal</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>Input -ve</td> <td>9</td> <td>NPN Trip 1</td> </tr> <tr> <td>2</td> <td>Input +ve</td> <td>10</td> <td>PNP Trip 1</td> </tr> <tr> <td>3</td> <td></td> <td>11</td> <td>NPN Trip 1 (0v)</td> </tr> <tr> <td>4</td> <td></td> <td>12</td> <td>PNP Trip 1 (12v)</td> </tr> <tr> <td>5</td> <td></td> <td>13</td> <td>PNP Trip 2 (12v)</td> </tr> <tr> <td>6</td> <td>Power Supply +ve</td> <td>14</td> <td>NPN Trip 2 (0v)</td> </tr> <tr> <td>7</td> <td>Output +ve</td> <td>15</td> <td>NPN Trip 2</td> </tr> <tr> <td>8</td> <td>Power Supply/Output -ve</td> <td>16</td> <td>PNP Trip 2</td> </tr> </table>	Terminal				1	Input -ve	9	NPN Trip 1	2	Input +ve	10	PNP Trip 1	3		11	NPN Trip 1 (0v)	4		12	PNP Trip 1 (12v)	5		13	PNP Trip 2 (12v)	6	Power Supply +ve	14	NPN Trip 2 (0v)	7	Output +ve	15	NPN Trip 2	8	Power Supply/Output -ve	16	PNP Trip 2
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<p><b>ORDERING DETAILS</b></p> <p>a) Give identification code, i.e. MIN904 b) Give details of alarm settings, i.e. High or Low</p>
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	<p>LEE-DICKENS LTD, Rushton Road, Desborough, Kettering, Northants, NN14 2QW Tel: 01536-760156</p>
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