

# Analog Signal Conditioning Module in DIN-Rail-mountable Enclosure

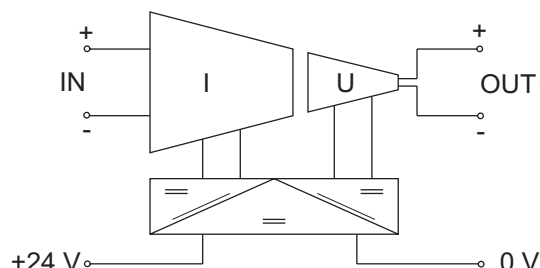
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Input signal  $\pm 20$  mA

Data sheet



Similar illustration



| Description  | Item-No.  | Pack.-unit pcs |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
|--|---|----------------|--------------|-------------|--------------------|-------|------------------|------------------|---------------|------------|--------------------|---------------------|--------------------------------------|--------------|--------------------------------|--------------|--------------------------------------|-------------------|----------------------------|-------|--------------------------------|----------------------|------------------------|----------------------|---|------------|----------------------------------|-------|--|------------------|-------------------------------|---------------|---------------------|-----------------|--------------------|--|-----------------|---|-----------------|----------------|
| Measuring output $\pm 10$ V  | 787-371   | 1              |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| <ul style="list-style-type: none"> <li>Analog signal conditioning module for signal transformation, amplification and transmission with electrical isolation of input and output of standard signals.</li> <li>Electrical isolated supply of input and output via DC/DC-converter.</li> <li>Module in DIN-rail mountable enclosure.</li> <li>Multi connection system. (WAGO series 734)</li> </ul> | <p><b>Technical Data</b></p> <p><b>Measuring input:</b></p> <table border="0"> <tr><td>Input signal</td><td><math>\pm 20</math> mA</td></tr> <tr><td>Max. input current</td><td>22 mA</td></tr> <tr><td>Input resistance</td><td><math>\leq 50 \Omega</math></td></tr> </table> <p><b>Measuring output:</b></p> <table border="0"> <tr><td>Output signal</td><td><math>\pm 10</math> V</td></tr> <tr><td>Working resistance</td><td><math>\geq 2</math> k<math>\Omega</math></td></tr> </table> <p><b>Transmission characteristics:</b></p> <table border="0"> <tr><td>Transmission error (measuring range)</td><td><math>\leq 0.1</math> %</td></tr> <tr><td>Offset error (measuring range)</td><td><math>\leq 0.1</math> %</td></tr> <tr><td>Temperature coefficient (full scale)</td><td><math>\leq 0.02</math> % / K</td></tr> <tr><td>Critical frequency (Sinus)</td><td>1 kHz</td></tr> <tr><td>Isolation voltage input/output</td><td>4 kV , 50 Hz , 1 min</td></tr> <tr><td>input/output/auxiliary</td><td>1 kV , 50 Hz , 1 min</td></tr> </table> <p><b>General data:</b></p> <table border="0"> <tr><td>Supply voltage RR <math>\leq 6</math> % input/output</td><td>DC 20-30 V</td></tr> <tr><td>Current consumption input/output</td><td>65 mA</td></tr> <tr><td>Nominal voltage acc. to VDE 0110/ 1.89</td><td>250 V / 4 kV / 3</td></tr> <tr><td>Ambient operating temperature</td><td>0 °C...+55 °C</td></tr> <tr><td>Storage temperature</td><td>-40 °C...+80 °C</td></tr> <tr><td>Dimensions (WxHxD)</td><td>(22,5x105* x74)mm (0.89x4.13* x2.91)in<br/>* from upper edge of DIN 35 rail</td></tr> <tr><td>Wire connection</td><td>Plugg. connector with CAGE CLAMP® (WAGO series 734)<br/>0,08-1,5 mm<sup>2</sup> / AWG 28-16</td></tr> <tr><td>Stripped length</td><td>7 mm / 0.28 in</td></tr> </table> |                | Input signal | $\pm 20$ mA | Max. input current | 22 mA | Input resistance | $\leq 50 \Omega$ | Output signal | $\pm 10$ V | Working resistance | $\geq 2$ k $\Omega$ | Transmission error (measuring range) | $\leq 0.1$ % | Offset error (measuring range) | $\leq 0.1$ % | Temperature coefficient (full scale) | $\leq 0.02$ % / K | Critical frequency (Sinus) | 1 kHz | Isolation voltage input/output | 4 kV , 50 Hz , 1 min | input/output/auxiliary | 1 kV , 50 Hz , 1 min | Supply voltage RR $\leq 6$ % input/output | DC 20-30 V | Current consumption input/output | 65 mA | Nominal voltage acc. to VDE 0110/ 1.89 | 250 V / 4 kV / 3 | Ambient operating temperature | 0 °C...+55 °C | Storage temperature | -40 °C...+80 °C | Dimensions (WxHxD) | (22,5x105* x74)mm (0.89x4.13* x2.91)in<br>* from upper edge of DIN 35 rail | Wire connection | Plugg. connector with CAGE CLAMP® (WAGO series 734)<br>0,08-1,5 mm <sup>2</sup> / AWG 28-16 | Stripped length | 7 mm / 0.28 in |
| Input signal   | $\pm 20$ mA   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Max. input current   | 22 mA   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Input resistance   | $\leq 50 \Omega$  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Output signal  | $\pm 10$ V  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Working resistance   | $\geq 2$ k $\Omega$   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Transmission error (measuring range)   | $\leq 0.1$ %  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Offset error (measuring range)   | $\leq 0.1$ %  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Temperature coefficient (full scale)   | $\leq 0.02$ % / K   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Critical frequency (Sinus)   | 1 kHz   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Isolation voltage input/output   | 4 kV , 50 Hz , 1 min  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| input/output/auxiliary   | 1 kV , 50 Hz , 1 min  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Supply voltage RR $\leq 6$ % input/output  | DC 20-30 V  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Current consumption input/output   | 65 mA   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Nominal voltage acc. to VDE 0110/ 1.89   | 250 V / 4 kV / 3  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Ambient operating temperature  | 0 °C...+55 °C   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Storage temperature  | -40 °C...+80 °C   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Dimensions (WxHxD)   | (22,5x105* x74)mm (0.89x4.13* x2.91)in<br>* from upper edge of DIN 35 rail  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Wire connection  | Plugg. connector with CAGE CLAMP® (WAGO series 734)<br>0,08-1,5 mm <sup>2</sup> / AWG 28-16   |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |
| Stripped length  | 7 mm / 0.28 in  |                |              |             |                    |       |                  |                  |               |            |                    |                     |                                      |              |                                |              |                                      |                   |                            |       |                                |                      |                        |                      |   |            |                                  |       |  |                  |                               |               |                     |                 |                    |  |                 |   |                 |                |