

Analog Signal Conditioning Module in DIN-Rail-mountable Enclosure

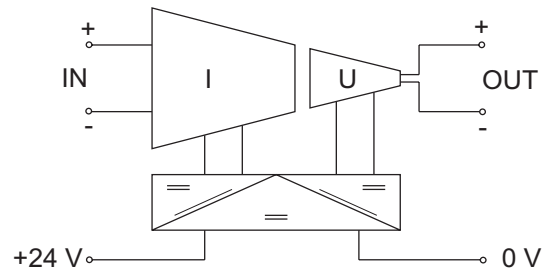
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Input signal 0-20 mA

Data sheet



Similar illustration



| Description | Item-No. | Pack.-unit pcs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------|--------------|---------|--------------------|-------|------------------|------------------|---------------|------------|--------------------|--------------------------|--------------------------------------|---------------|--------------------------------|---------------|--------------------------------------|--------------------|----------------------------|-------|--------------|----------------------|------------------------|----------------------|-------------------------------|--|--------------|------------|---------------------|--|--------------|-------|-----------------|--|------------------------|------------------|-------------------------------|---------------|---------------------|-----------------|--------------------|--|--|----------------------------------|-----------------|---|--|--------------------------------------|-----------------|----------------|------------------------|---------------------------------------|
| Measuring output ± 10 V | 787-370 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Analog signal conditioning module for signal transformation, amplification and transmission with electrical isolation of input and output of standard signals. • Electrical isolated supply of input and output via DC/DC-converter. • Module in DIN-rail mountable enclosure. • Multi connection system. (WAGO series 734) | <p>Technical Data</p> <p>Measuring input:</p> <table border="1"> <tr><td>Input signal</td><td>0-20 mA</td></tr> <tr><td>Max. input current</td><td>22 mA</td></tr> <tr><td>Input resistance</td><td>$\leq 50 \Omega$</td></tr> </table> <p>Measuring output:</p> <table border="1"> <tr><td>Output signal</td><td>± 10 V</td></tr> <tr><td>Working resistance</td><td>$\geq 2 \text{ k}\Omega$</td></tr> </table> <p>Transmission characteristics:</p> <table border="1"> <tr><td>Transmission error (measuring range)</td><td>$\leq 0.1 \%$</td></tr> <tr><td>Offset error (measuring range)</td><td>$\leq 0.1 \%$</td></tr> <tr><td>Temperature coefficient (full scale)</td><td>$\leq 0.02 \%$ / K</td></tr> <tr><td>Critical frequency (Sinus)</td><td>1 kHz</td></tr> </table> <p>Isolation voltage</p> <table border="1"> <tr><td>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>General data:</p> <table border="1"> <tr><td>Supply voltage RR $\leq 6 \%$</td><td></td></tr> <tr><td>input/output</td><td>DC 20-30 V</td></tr> <tr><td>Current consumption</td><td></td></tr> <tr><td>input/output</td><td>80 mA</td></tr> <tr><td>Nominal voltage</td><td></td></tr> <tr><td>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</td></tr> <tr><td></td><td>* from upper edge of DIN 35 rail</td></tr> <tr><td>Wire connection</td><td>Plugg. connector with CAGE CLAMP® (WAGO series 734)</td></tr> <tr><td></td><td>0,08-1,5 mm² / AWG 28-16</td></tr> <tr><td>Stripped length</td><td>7 mm / 0.28 in</td></tr> <tr><td>EMC-test IEC 801-2/4/5</td><td>Grade B met acc.to EN50082 P.2 (3.94)</td></tr> </table> | | Input signal | 0-20 mA | Max. input current | 22 mA | Input resistance | $\leq 50 \Omega$ | Output signal | ± 10 V | Working resistance | $\geq 2 \text{ k}\Omega$ | 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 | 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 | 80 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 | | * from upper edge of DIN 35 rail | Wire connection | Plugg. connector with CAGE CLAMP® (WAGO series 734) | | 0,08-1,5 mm ² / AWG 28-16 | Stripped length | 7 mm / 0.28 in | EMC-test IEC 801-2/4/5 | Grade B met acc.to EN50082 P.2 (3.94) |
| Input signal | 0-20 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. input current | 22 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input resistance | $\leq 50 \Omega$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Output signal | ± 10 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Working resistance | $\geq 2 \text{ k}\Omega$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 80 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | * from upper edge of DIN 35 rail | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wire connection | Plugg. connector with CAGE CLAMP® (WAGO series 734) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0,08-1,5 mm ² / AWG 28-16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stripped length | 7 mm / 0.28 in | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EMC-test IEC 801-2/4/5 | Grade B met acc.to EN50082 P.2 (3.94) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |