

Frequency converter BAMOTOP



- 1 Frequency input
- Power supply to sensor
- 2 Analogue outputs (current or voltage)
- 2 Relay outputs
- Set up through a joystick or a PC
- Universal main power input
80 ... 256 V AC 50/60 Hz ; 20 ... 240 V DC
- Total insulation:
Inputs, Outputs, Power / 2500 V AC

APPLICATIONS

- To convert a frequency signal into an analogue signal
(Inputs signals from dry contacts, CMOS and TTL circuits, magnetic sensors, PNP/NPN sensors)

DESCRIPTION

The BAMOTOP receives a frequency input signal that it processes numerically to convert it into an analogue voltage or current signal. Two analogue outputs can be assigned in mA or mV; Two relay outputs can be set over the entire input scale (value, hysteresis and time delay).

TECHNICAL FEATURES

Power supply	0... 256 V AC 50/60 Hz and 20 ... 240 V DC (no polarity)
Consumption	< 4 VA
Display	Graphic LCD screen
Temperature limits	Ambient: -10 ... +60 °C Storage: -25 ... +80 °C
Protection	IP 20
Mounting	DIN rail, 17.5 mm
Connections	4 removable terminal blocks
Set up	Through its joystick or with a PC
Accuracy	0.1 %
Conversion	Digital / Analog output: 16 bits
Thermal drift	< 25 ppm

Input signal

Frequency	1 Hz to 1 kHz 10 Hz to 10 kHz 100 Hz to 100 kHz
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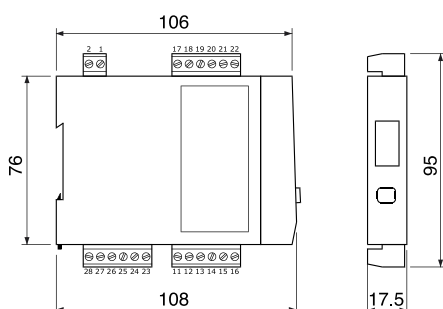
Voltage

Sine, square, triangular, trapezoidal
From 1 V to 500 V
Input impedance: 3 MΩ

PNP/NPN or potential free contact
Power to sensor: 15 V / 25 mA

Insulation

Power / Input: 2500 V AC, 50 Hz, 1 min
Input / Analogue output: 2500 V AC, 50 Hz, 1 min
Analogue outputs 1 / 2: No insulation
Power / Analogue output: 2500 V AC, 50 Hz, 1 min



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Frequency converter BAMOTOP

11-12-2019

D-281.02-EN-AA

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2 Analogue outputs and 2 relay outputs

Current 0-20 / 4-20 mA (Impedance < 700 Ω)
 Scalable range: 0 to 22 mA
 Residual ripple: < 20 μ A

Voltage 0-10 V (Impedance > 2 k Ω)
 Scalable range: 0 to 11 V
 Residual ripple < 10 mV

Relays SPDT - 500 mA / 250 V

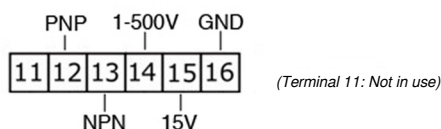
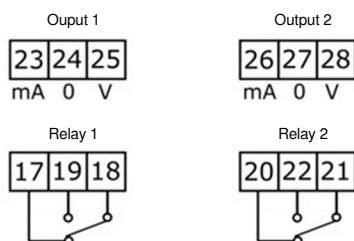
EC Conformity: The instrument meets the legal requirements of the current European Directives

CODE NUMBERS AND REFERENCES

Code	Reference	Description
281 310	BAMOTOP	Frequency converter, 1 Hz ... 100 kHz / 0-20 mA or 4-20 mA

FEATURES

Display	LCD, green, not backlit Display the direct input value and the scale set value Outputs in scale set value and percentage Status of relays
Scale factor on output	To zoom in on output and display
Set up	By the joystick (5 positions) on front
Memory Min./Max.	Record of Min. & Max. measured values
Offset	Adjustment on any kind of input
Simulation	Acts on the analogue & relay outputs, on display, independently of the input and without disconnecting neither the input nor the outputs
Limits on outputs	Possibility of limiting the output value High Limit and Low Limit
Thresholds	Direct mode or bandwidth mode, positive or negative safety Adjustment of thresholds, hysteresis and time delay (independent on rising and decreasing signal) Direct access to thresholds, memory and alarm reset
Alarm reset	Independent for each alarm
Alarm record	Independent for each alarm
Other features	Cut Off - Resolution 1 or 10 points - Decimal point - Filter - Joystick lock - Display contrast adjustment

ELECTRICAL CONNECTIONS**Input signals (to choose only one)****Output signals****Power supply**

No polarity



20 V DC - 240 V DC
 80 V AC - 256 V AC ; 50/60 Hz

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