

Command value and ramp module

RE 30288/07.12

1/6

Type VT-SWMA3-...

Component series 1X

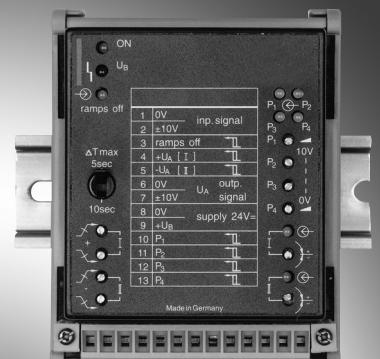


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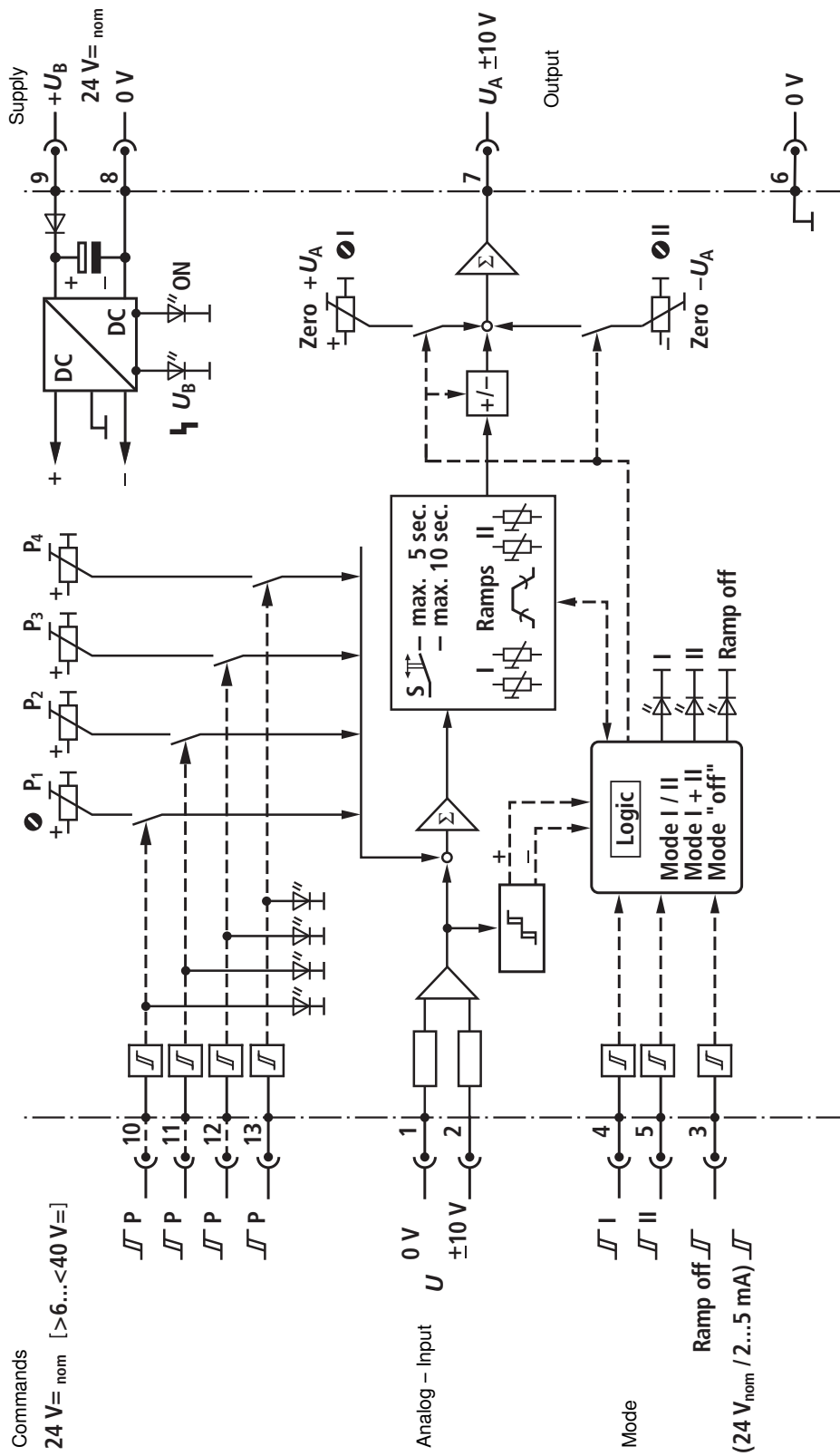
Features

- Design: Module for snapping onto carrier rail
- Suitable for controlling proportional valves with installed electronics
- 4 internal command values
- Command value input U_E
- Direction logic (+/–)
- Adjustable ramps
 - I for $+U_A$
 - II for $-U_A$
- Selector switch for $\Delta T_{\max}$
- Input for "Ramps OFF"

Notice:

The photo is an example configuration.
The delivered product differs from the figure.

Block diagram with pin assignment



Technical data (For applications outside these parameters, please consult us!)

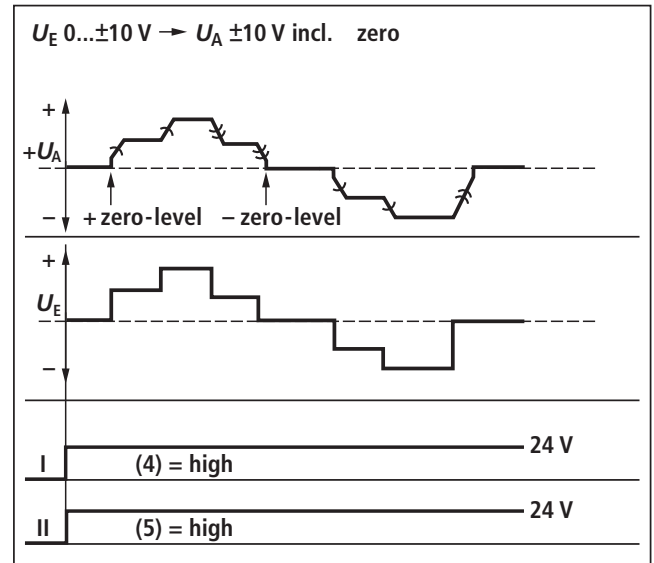
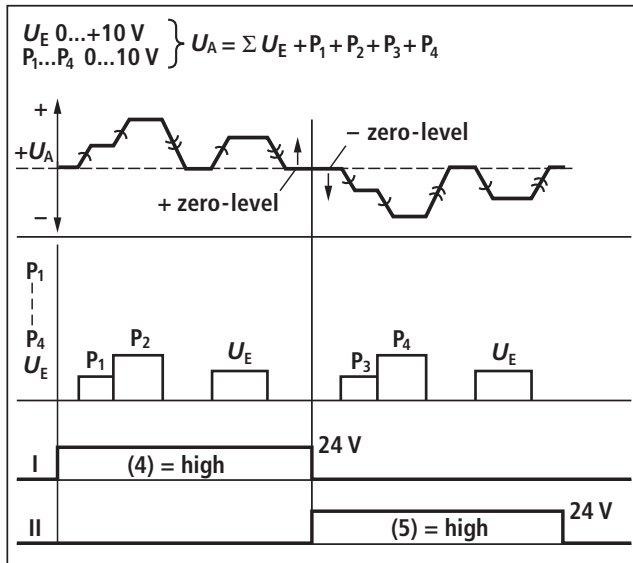
Supply voltage		Nominal 24 V = Battery voltage 21...40 V, Rectified alternating voltage $U_{\text{eff}} = 21...28 \text{ V}$ (one-phase, full-wave rectifier)
Current consumption	A	≤ 0.2
Signal input " U_E " analog		Mode I or II: 0...+10 V Mode I + II: 0...±10 V
Logic commands "commands"		24 V = $_{\text{nom}}$, loaded: 2...5 mA (> 6 V max. 40 V =)
Operating state (mode) 1. Unipolar 2. Bipolar		Mode I (cl. 4) for $U_A = +$ or Mode II (cl. 5) for $U_A = -$ Mode I + II for $\pm U_E \rightarrow \pm U_A$
Note		Zero point Mode I or zero point $\rightarrow 0 \text{ V}$ Mode I + II zero point with +0.5 V or adjust -0.5 V U_E
Miscellaneous		$P_1...P_4$ may sum up (up to a max. of 10 V)
Format / design	mm	860 x 110 x 95.5/module
Ambient temperature	°C	0...+70
Storage temperature range	°C	-20...+70
Weight	m	0.39 kg

Commissioning

MODE/SIGNAL: I $\rightarrow$ $+U_A$
II $\rightarrow$ $-U_A$

or

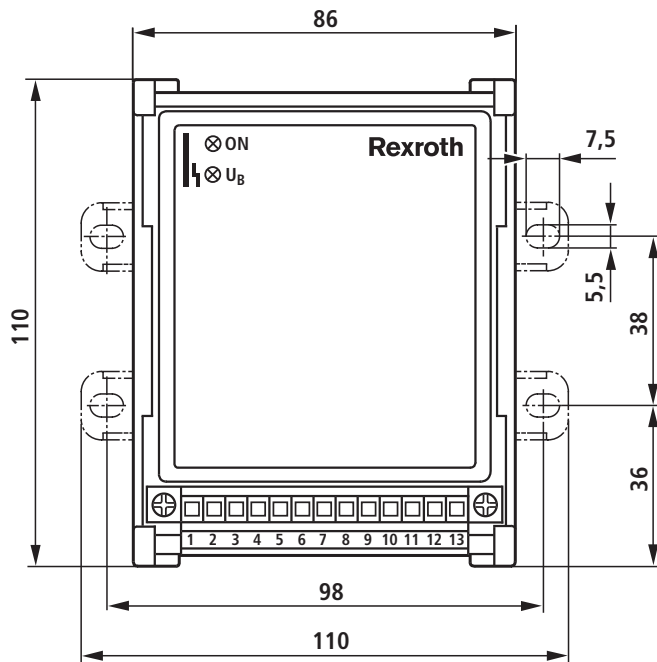
MODE/SIGNAL: I + II $\rightarrow$ $\pm U_A$



- Selection mode I or II
- $\otimes \frac{+}{-}$ Zero point with $U_E = 0$ V
- Examination of the signals U_E ($P_1...P_4$)
- Ramp adjustment I or II

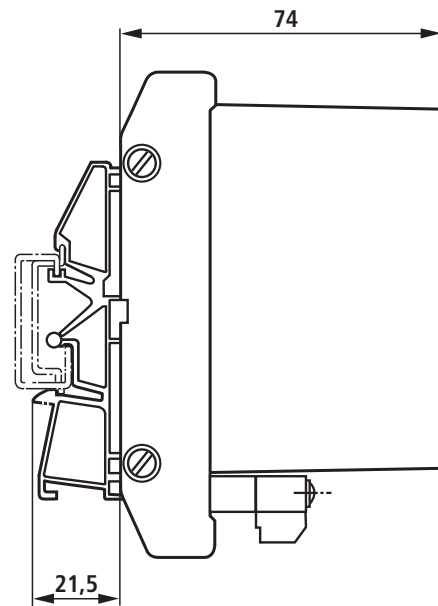
- Selection mode I or II (bipolar)
- $\otimes \frac{+}{-}$ Zero point with $U_E = +0.5$ V and/or -0.5 V
- Examination of the signal $\pm U_E$
- Ramp adjustment I or II

Device dimensions (dimensions in mm)



Wall mounting

(86 x 110 x 95.5) mm



Carrier rail assembly (snap-in)

Project planning / maintenance instructions / additional information

- The distance to aerial lines, radios and radar systems must be sufficient (> 1 m).
- Do not lay solenoid and signal lines near power cables.
- For signal lines and solenoid conductors, we recommend using shielded cables.
The cable shield must be connected to the control cabinet extensively and as short as possible.
- The valve solenoid must not be connected to free-wheeling diodes or other protection circuits.

Notes

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Notes
