

Electric Drives
and Controls

Hydraulics

Linear Motion and
Assembly Technologies

Pneumatics

Service

Rexroth
Bosch Group

Command value and ramp module

RE 30288/07.12

1/6

Type VT-SWMA3-...

Component series 1X

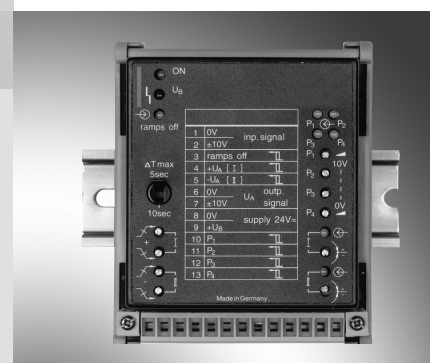


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Features

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1	– Design: Module for snapping onto carrier rail
1	– Suitable for controlling proportional valves with installed electronics
2	– 4 internal command values
3	– Command value input U_E
4	– Direction logic (+/-)
5	– Adjustable ramps
6	I for $+U_A$
6	II for $-U_A$
6	– Selector switch for ΔT_{max}
6	– Input for "Ramps OFF"

Notice:

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

Ordering code

VT-SWMA3-5-1X/V0/ 0

Command value and
ramp module

0 = Standard option

Customer version

Catalog version

V0 =

1X =

Component series 10 to 19
(10 to 19: Unchanged technical data
and pin assignment)

Preferred type

Amplifier type	Material number
VT-SWMA3-5-10/V0/0	0811405108

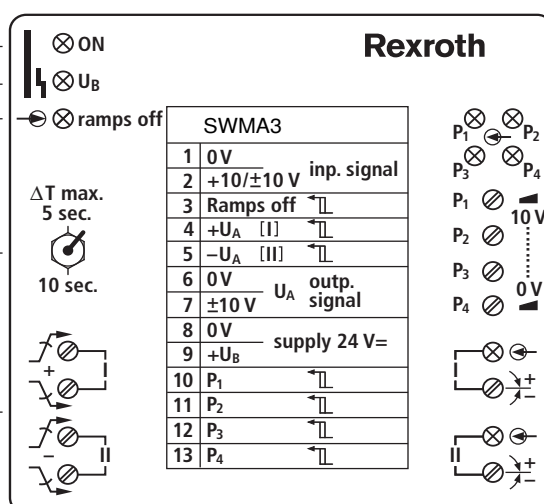
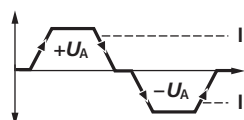
Front plate

LED U_B 24 V=

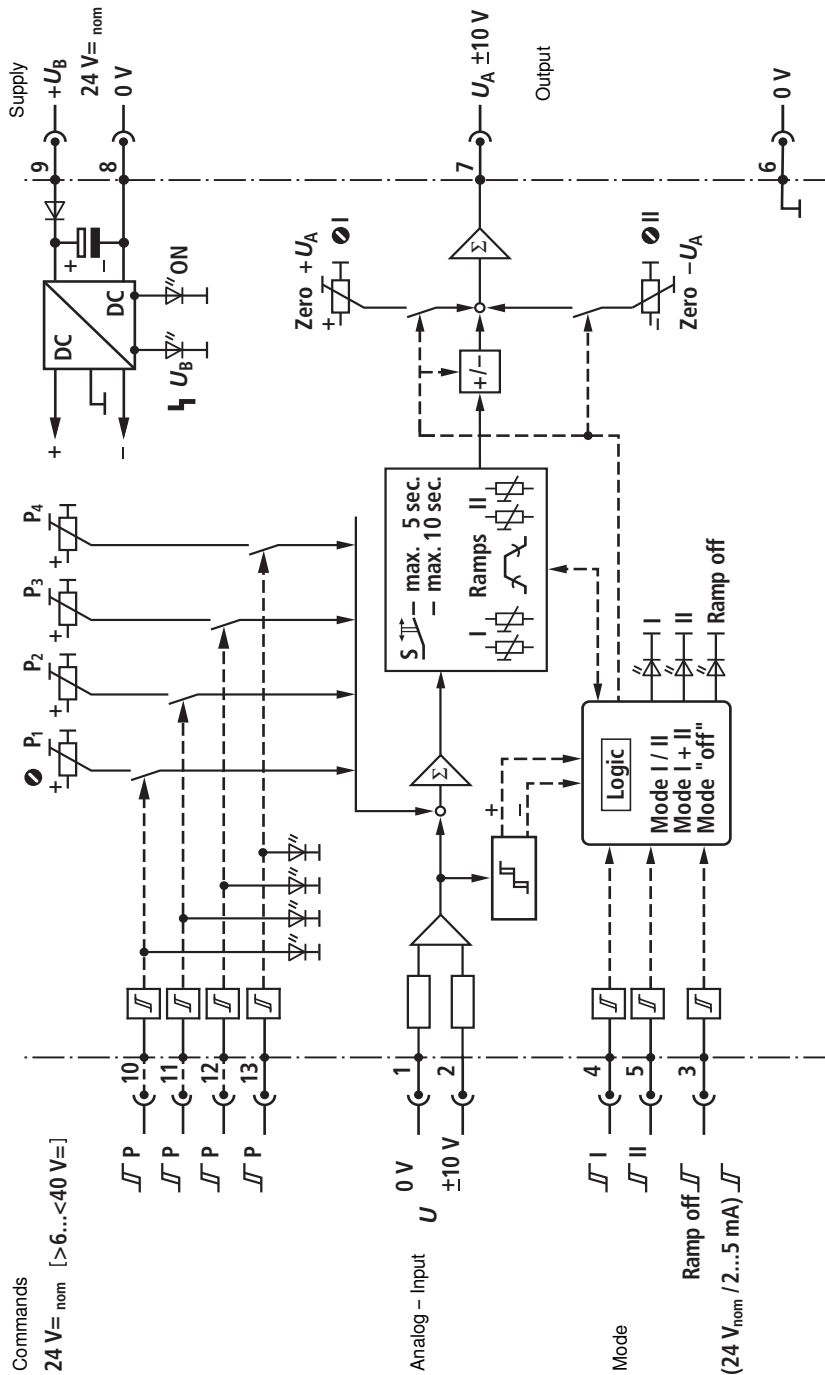
LED $U_B \leq U_B$ min.

LED Ramp OFF

Ramp ΔT max.



Block diagram with pin assignment



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

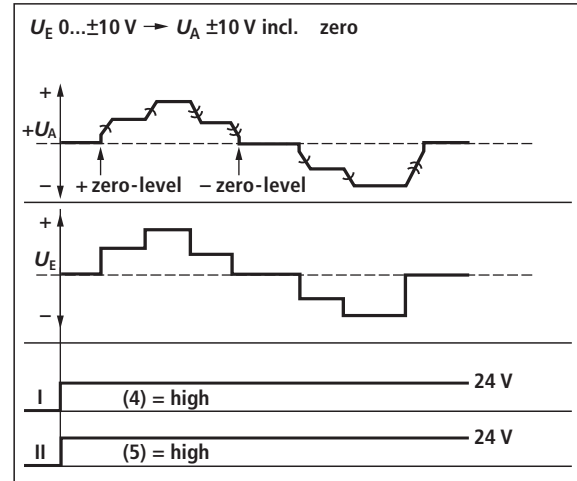
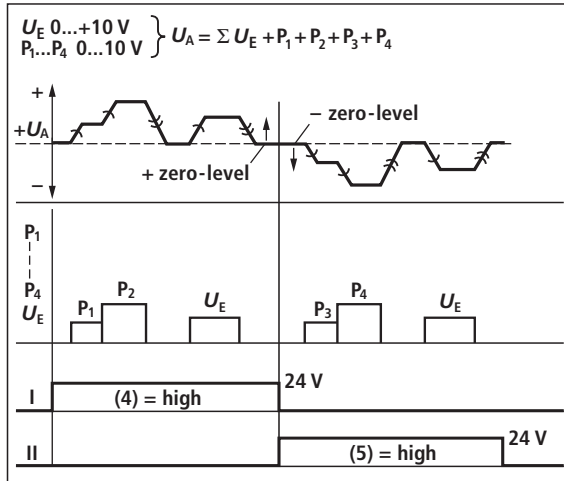
Supply voltage		Nominal 24 V = Battery voltage 21...40 V, Rectified alternating voltage $U_{\text{eff}} = 21...28 \text{ V}$ (one-phase, full-wave rectifier)
Current consumption	A	≤ 0.2
Signal input " U_E " analog		Mode I or II: 0...+10 V Mode I + II: 0...±10 V
Logic commands "commands"		24 V = $_{\text{nom}}$, loaded: 2...5 mA (> 6 V max. 40 V =)
Operating state (mode)		
1. Unipolar		Mode I (cl. 4) for $U_A = +$ or Mode II (cl. 5) for $U_A = -$
2. Bipolar		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 → +U_A
II → -U_A

or

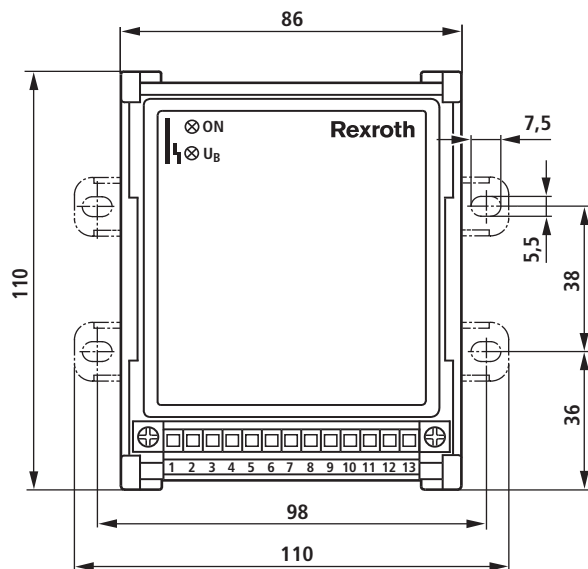
MODE/SIGNAL: I + II → ±U_A



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

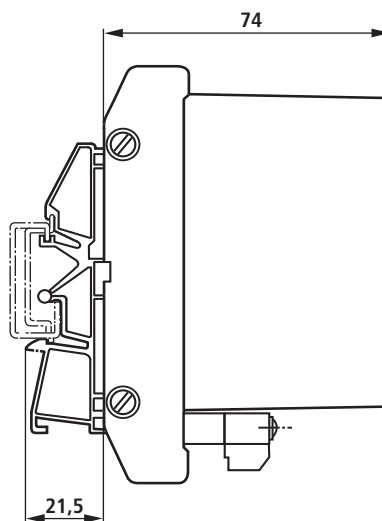
- Selection mode I or II (bipolar)
- Zero point with $U_E = +0.5$ V and/or -0.5 V
- Examination of the signal ± U_E
- Ramp adjustment I or II

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.