

Servo amplifiers

RE 29717/05.05
replaces: 03.04

1/2

Type VT1610

Series 3X



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Features

Servo amplifiers type VT1610 S3X are used to control servo valves or proportional valves with servo valve pilot stages and electrical feedback of the main spool position.

By altering internal bridges, the PID regulator may be uncoupled. In this way the following positioning regulator can be directly controlled. The oscillator - demodulator is mounted on an extra card plugged on the main card, and is matched on the valve being controlled. The ammeter built into the front plate shows the current to the servo valve; ± 30 divisions indicate ± 60 mA!

Ordering code

VT 1610	S	3X/			*
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32-pole linear plug to DIN 41612
(for install in Eurocard magazines and card holders) = S

Series 30 to 39
(30 to 39: Install. and connect. dimens. remain unchanged) = 3X

further details in clear text

Type code of valve

0 = without $\pm 15V$ voltage regulator
1 = with $\pm 15V$ voltage regulator

No desig. = German front plate
E = English front plate

Information about available spare parts:
www.boschrexroth.com/spc

Technical Data (for applications outside these parameters, please consult us!)

Supply voltage	U	± 22 to 28 V smoothed ($\pm U_L$)
supply voltage	U	± 15 V ($\pm U_M$) -without voltage regulator-
Signal voltage	U	0 to ± 10 V
Current requirement at $\pm U_L$	I	< 200 mA
Output current	I_{\max}	± 60 mA
Oscillator frequency	f	2.5 kHz, only 4WS2EE10. 5 kHz
Dither		340 Hz/ 3mA_{ss}
Relais data:		
Relais coil voltage	U	± 22 to 28 V ($\pm U_L$)
Duty cycle	t	1 ms
coil resistance	R	2000 Ω
plug connector		indirect / DIN 41612 / Form D / 32-pole
space requirements:	Conductor side Component side	1 division 7 division 1 division = 5.08 mm
Temperature range	ϑ	0° to $+50$ $^\circ\text{C}$
Weight	m	0.20 kg

Terminal Connections

