

# Electronic Control Unit ES/43



The Electronic Control Unit ES/43 serves for control of proportional valves without position control. There is a version for 4 proportional valve solenoids (ES / 43-10) and a version for 2 Proportional valve solenoids (ES / 43-11) available.

## Features:

- Stabilized voltage
- Chopper output stage with adjustable frequency
- Ramp time setting ON/OFF delay
- Creep speed circuit adjustable
- Solenoid current setting separate for minimum current and maximum current
- Output current controlled independently of temperature and solenoid
- Power output short-circuit-proof with overload protection
- Voltage input protected against polarity reversal
- Mechanical selection of direction by means of contacts
- LED operating voltage and working display
- Microprocessor technology therefore especially adaptable



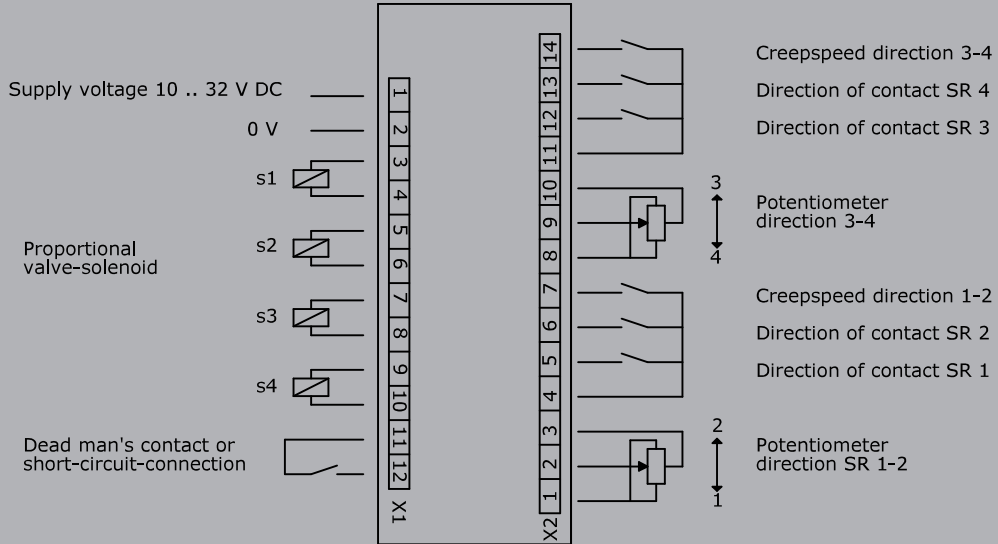
## Technical data:

- Supply voltage		10...	32 V DC	<i>Example</i>
- Residual ripple		20%		
- Control voltage range	Ue	0...	5 V	
- Control current	le	< 1mA		
- Dither frequency	f	25...	250Hz	
- Proportional valve S 1-4	I min.	0...	1A	
Output	I max. = I min ...		2A at 12 Volt	
Output	I max. = I min ...		1A at 24 Volt	
- Ramp time setting	t on	0,2...	25 sec	
	t off	0,2...	25 sec	
- Creep speed	variable reduction		25...75%	
- Operating temperature		-40°C to +85°C		
- Storage temperature		-40°C to +80°C		

Electronic Control Unit for 4 proportional valves solenoid ES/43-10

Electronic Control Unit for 2 proportional valves solenoid ES/43-11

ES / 43-10  
4 Proportional valves-solenoid



ES / 43-11  
2 Proportional valves-solenoid

