



TSP10

Stepper motor drive with Analog and encoder interface

TSP10-ANE

- Compact size
- Supply voltage 24-74V_{DC} , max. motor current 7 A_{rms}
- Analog inputs (2) and Outputs (2) (0-10V, ±10V)
- Supply voltage 10V for the connection of a potentiometer
- Analog setpoint for position or velocity
- Idle current reduction
- Noiseless at standstill, smooth operation
- Low heat losses
- Opto-isolated inputs (10) and outputs (4)
- Separated supply voltage for electronic and motor
- Programmable motion tasks with adjustable ramps

AHS Antriebstechnik GmbH
Fichtenweg 17
64319 Pfungstadt
Phone: +49 6157 9866110
Fax: +49 6157 9866112

TSP10-ANE - Compact stepper motor drive

The TSP10 drive is a compact microstep power module for 2-phase stepper motors with various configurations for the best possible customization to the individual application.

The units are designed for panel mounting and equipped with the mating plugs; the compact size allows installation, where only restricted mounting space is available. The heat dissipation is laterally possible over an optional heat-sink or over the bearing surface at the back.

The supply voltage plug and the motor plug are placed at the bottom side of the drive. The 25-pin Sub-D socket for the digital I/Os as well as three 9-pin Sub-D socket for the RS232-connection, for the analog and encoder are located at the front of the drive. A fast parameterization can be done via the two rotary switches at the top side of the case.

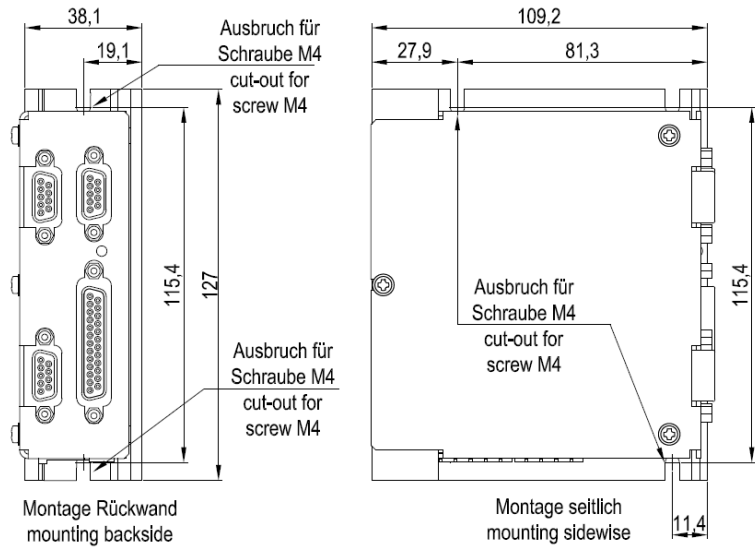
A two colour LED indicates the status of the drive by colors and flashing signals. All digital inputs and outputs are opto-isolated. Because only a few basic settings are required, the stepper with little effort can be integrated into any control system.

Technical data

Supply voltage	power supply voltage 24 - 74V _{DC}
Motor current	max. 10 A _{peak} ; 0,2 bis 7 A _{rms}
	adjustable in mA (fast parameterization: 16 steps) for 2-phase stepper motors with 4,6 or 8 leads
Power supply	for the motor power supply only an unregulated DC voltage is required.
Ambient temperature	<50°C without heat sink max 3.2A @ 25°C / 1.6A @ 45° C
Heat sink temperature	<50°C with heat sink (optional) max 7A @ 25°C/ 3.5A @45° C
Humidity	max. 60°C, forced cooling may be necessary
Fault protection	10-90%, non-condensing
Idle current reduction	Line-to-Line and line-to-neutral shorts and over temperature
Inputs	free adjustable
Input interface	10 digital inputs, free configurable 2 analog inputs, AE1: ±10V, AE2: 0..10V
Outputs	RS232
	4 digital outputs, SPS compatible free configurable 2 analog outputs, 0..10V or ±10V 1 power supply 10V, 100mA Status LED : green = ready for use; red = failure; yellow = motor movement

Connection/ Dimensions

Connectors	
Supply voltage	4-pole plug-in terminal strip
Motor	5-pole plug-in terminal strip
Serial interface	9-pin Sub-D-socket
I/Os	25-pin Sub-D-socket
Analog-Interface	9-pole Sub-D-socket
Encoder	9-pole Sub-D-socket



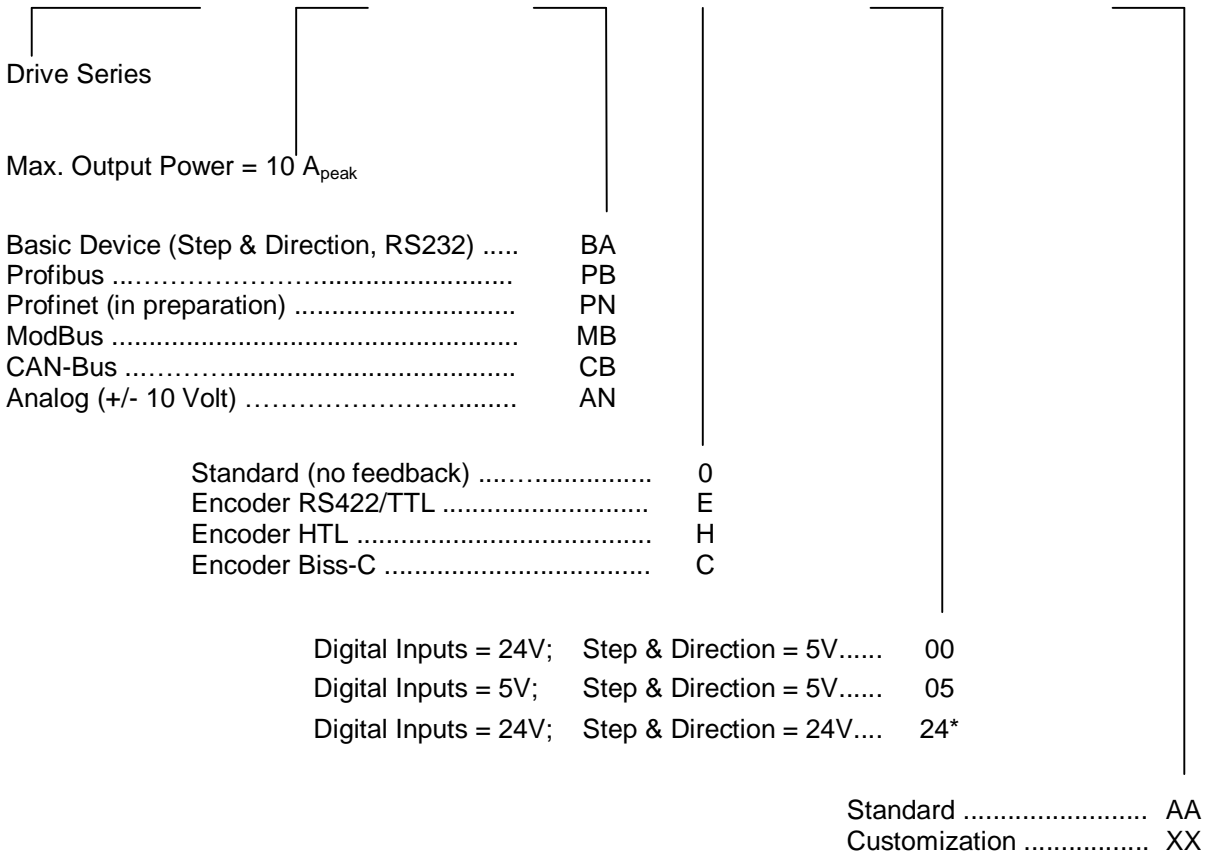
all dimensions in mm

Ordering code

TSP10-ANE-00-AA = Standard version

TSP10 Type code

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*only available for the TSP10-BA

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Technische Änderungen vorbehalten / Specifications are subject to change without notice