

Schneider Servohydraulics.
Digital Controller with Power Amplifier
Model: HE 302...(DSP-version)

SHORT DESCRIPTION

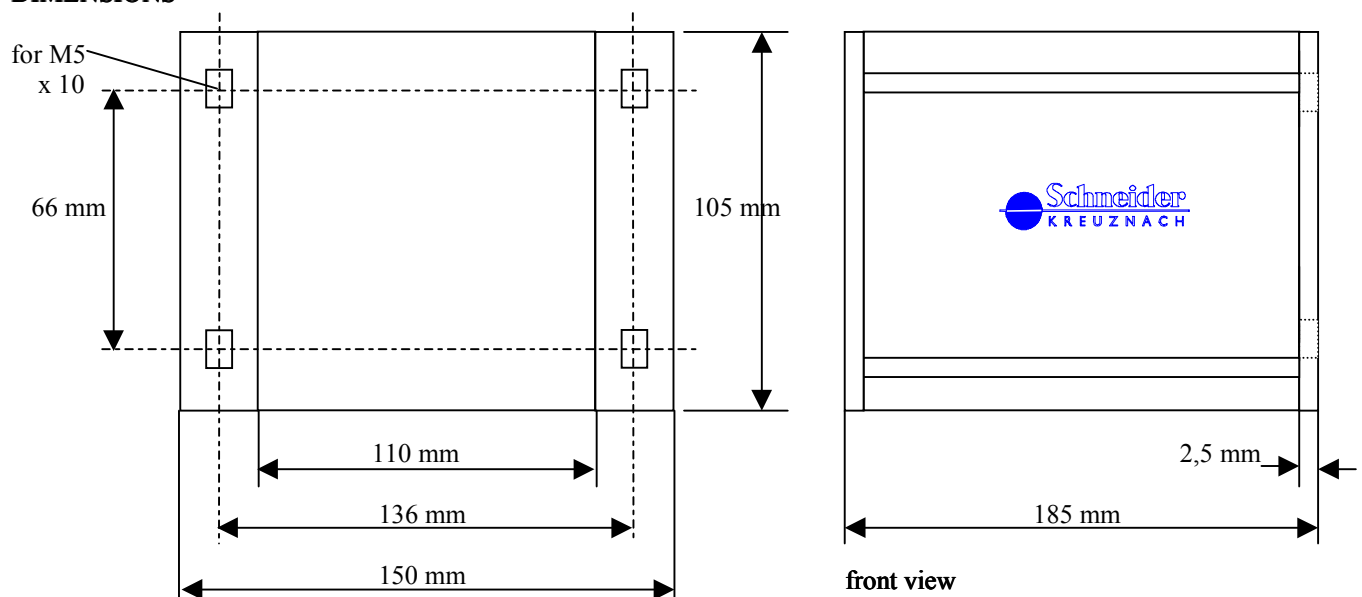
The digital axle controller was developed for electrical hydraulic systems with servovalves. In the past one always had to resort to the available CNC controllers when installing a digital controller. These controllers, however, were developed primarily for electric systems and are tuned to the static and dynamic functioning of electric systems. Servovalves function quite differently from electric systems, however, and only achieved an unsatisfactory resolution of the closed loop.

The DSP controller has been perfected in its static and dynamic functioning to adapt to Schneider Servovalves. The TI TMS 320 with 80 MHz and 16 bit permits a scan time of <math><100\mu\text{s}</math> for a complete calculation operation with a PID algorithm. With this, dynamic control patterns are also possible, comparable with an analogue controller. Added advantages are the digital parametrics and the stability of a digital controller.

The controller is optimized by a RS 232 interface. The software can be set to the following:

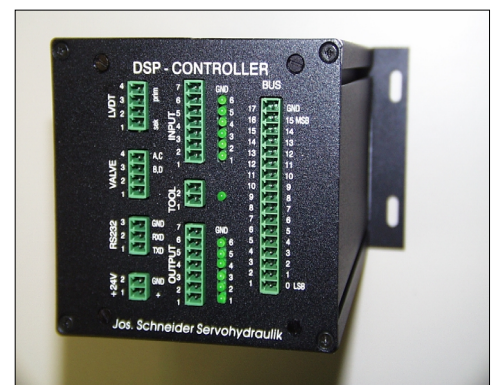
1. Reference functions: ramps (sinus/ polynomes as options)
2. Position references values
3. Speed values
4. Controller parametrics up to adaptive and subordinated regulation systems

DIMENSIONS



Technical details

- | | |
|----------------------------------|------------------------------------|
| 1. Supply voltage | : 24V DC /0,9 A (18...28V) |
| 2. DSP processor core | : TMS 320C50 |
| 3. Digital outputs | : 6 x 24V/500mA (with LED) |
| 4. Digital inputs | : 6 x 24V/ 20mA (with LED) |
| 5. Energy exit for servovalve | : PWM 0...±650mA |
| 6. RS 232 | : PC/Laptop |
| 7. Inductive position transducer | : Differential Transformer |
| 8. Alternative transducer sys. | : SSI transducers
: Incrementel |



Standard model for inductive cylinder transducer systems and 650mA valve available from stock:
 Article no. 26264 Type HE 302-0650-101011-1A .