

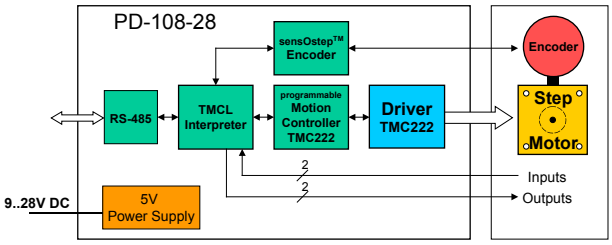
10 mm

PD-108-28

**28mm / NEMA11
Stepper Motor with
Controller / Driver
and Serial Interface**

INFO

The PD-108-28 is a full mechatronic solution including a 28 mm flange motor (NEMA11). It joins a convenient controller electronic and a sensOstep™ encoder with a range of different motor torques. The PD-108-28 offers two motor torque options and can be controlled via RS-485 serial interface. The power supply, interface and the multi purpose I/Os can be connected via a single small JST connectors. The PD-108-28 comes with the PC based software development environment TMCL-IDE for the Trinamic Motion Control Language (TMCL). Using predefined TMCL high level commands like „move to position" a rapid and fast development of motion control applications is guaranteed. Communication traffic is kept low since all time critical operations, e.g. ramp calculation are performed on board. Full remote control of device with feedback is possible. The firmware of the module can be updated via the serial interface.



MAIN CHARACTERISTICS

ELECTRICAL DATA
- 9V to 28V supply voltage

MOTOR DATA
- motor length: 32 mm / 51 mm
  max. torque 0.06 Nm / 0.12 Nm
- please also refer to the motor datasheet

INTERFACE
- RS-485
- 2 general purpose inputs
- 2 general purpose outputs

FEATURES
- up to 16 times microstepping
- memory for 64 TMCL commands
- automatic ramp generation in hardware
- on the fly alteration of motion parameters (e.g. position, velocity, acceleration)
- sensOstep™ Encoder for motor stall detection (e.g. end position reached, overload)
- dynamic current control

SOFTWARE
- stand-alone operation using TMCL or remote controlled operation
- PC-based application development software TMCL-IDE included

OTHER
- 8-pin pluggable JST connectors / cables included
- RoHS compliant

ORDER CODE	DESCRIPTION
PD1-108-28-SE (-option)	PANdrive 0.06 Nm with QSH2818-32-07-006 motor and sensOstep encoder
PD3-108-28-SE (-option)	PANdrive 0.12 Nm with QSH2818-51-07-012 motor and sensOstep encoder
OPTIONS	
485	RS-485 interface