

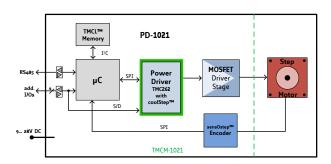
PD-1021

28mm | NEMA 11 Stepper Motor with Controller / Driver 0.06 - 0.12Nm / 24V sensOstep™ Encoder Serial Interface

The **PD28-1021** is a very compact and efficient mechatronic solution including a 28mm flange motor, a controller/driver board and a **sensOstep™** encoder. It can be controlled via serial RS485 interface or operated in standalone mode. Power supply, interface, and multipurpose inputs and outputs can be connected with one JST connector.

With the advanced **stallGuard2TM** feature the motor load can be detected with high resolution. The new outstanding **coolStepTM** technology for sensorless load dependent current control allows energy efficient motor operation.

The PC based software development environment TMCL-IDE for the Trinamic Motion Control Language TMCLTM can be downloaded free of charge from the TRINAMIC website. Predefined high level TMCL commands guarantee a rapid development of motion control applications.



MAIN CHARACTERISTICS

ELECTRICAL • 9V to 28V DC supply voltage

MOTOR DATA · flange size 28mm | NEMA11

INTERFACE · RS485

- · step&direction interface*
- · inputs for ref. & stop switches*
- · 2 digital inputs*
- · 2 general purpose I/Os

FEATURES • up to 256 times microstepping

- memory for 876 TMCL™ commands
- · stallGuard2™ sensorless load detection
- coolStep™ sensorless load dependent current control
- microPlyer™ 16 to 256 times microstepping interpolation
- integrated absolute sensOstep™ encoder with 1024 pps.
- · automatic ramp generation in hardware
- · on the fly alteration of motion parameters

software • standalone operation usi

- standalone operation using TMCL or remote controlled operation
- PC-based (Windows) application development software TMCL-IDE downloadable

other · pluggable JST connectors

- · RoHS compliant
- size: 28 x 28 mm²
- * alternate functions

ORDER CODE	DESCRIPTION
PD28-1-1021	o.o6 Nm / QMot motor QSH2818-32-07-006
PD28-3-1021	o.12 Nm / QMot motor QSH2818-51-07-012
PD-1021-CABLE	Cable loom including all neccessary cables (single ended)