

PD-1021

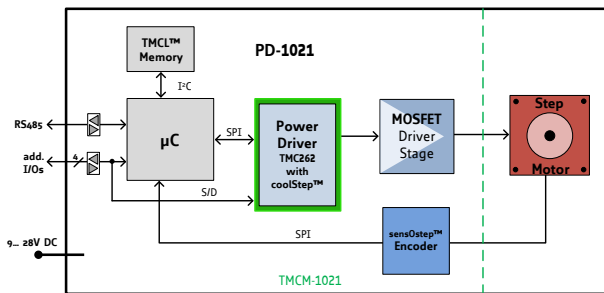
28mm | NEMA 11
 Stepper Motor with
 Controller / Driver
 0.06 - 0.12Nm / 24V
 sensOstep™ Encoder
 Serial Interface

INFO 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 **stallGuard2™** feature the motor load can be detected with high resolution. The new outstanding **coolStep™** 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 **TMCL™** 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 DATA**
 - 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 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	0.06 Nm / QMot motor QSH2818-32-07-006
PD28-3-1021	0.12 Nm / QMot motor QSH2818-51-07-012
PD-1021-CABLE	Cable loom including all necessary cables (single ended)