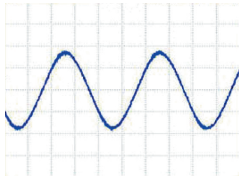
Features

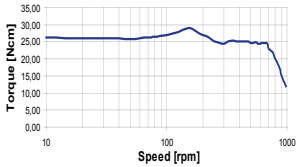
Main features

√ Vectorial control

The sinusoidal phase current with "else" technology keep the motor torque constant allowing smooth and noiseless movements.



Current



Torque

√ Closed loop with incremental encoder
√ Smooth movement
√ Compact size
√ Noiseless rotation
√ Reliability
√ Low EM emissions
√ Software resonance damping
√ Auto tuning of motor control parameters
√ High efficiency current set up
√ Reduction of motor temperature
√ From 5 to 24 Vdc digital inputs voltage

Specifications

MODELS

Code	Power suppply	Current max	Motors type
LW4D3070	24 ~ 75 Vdc	7.1 Arms 10.0 Apeak	2 phases

OPTO ISOLATED INPUTS
3 digital IN 5 ÷ 24 Vdc NPN, PNP or Line-Driver

OPTO ISOLATED OUTPUTS
1 digital OUT 24 Vdc - 100 mA for status monitoring

STEP RESOLUTION
from full step up to 1/128 and from full step up to 1/100 (emulated) selectable through dip-switch

SCI INTERFACE
service SCI interface for real time debug

SAFETY PROTECTIONS
Over/Under voltage, Over Current, Over Temperature, Short Circuit Phase/Phase and Phase/Ground

TEMPERATURE
Working: from 5°C to 40°C. Storage: from -25°C to 55°C

HUMIDITY
5% ~ 85%

PROTECTION CLASS
IP20

Closed Loop Vectorial Drivers for 2 phases stepper motors

TITANIO
VECTOR - STEPPER - DRIVES

GARANZIA 3 ANNI

LW4D

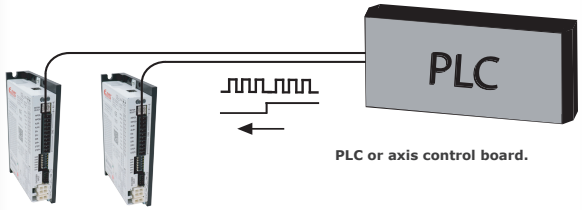
Titanio drivers

- Clock & Direction control
- Vector control for smooth and silent movements
- Integrated diagnostics
- Closed loop with incremental encoder

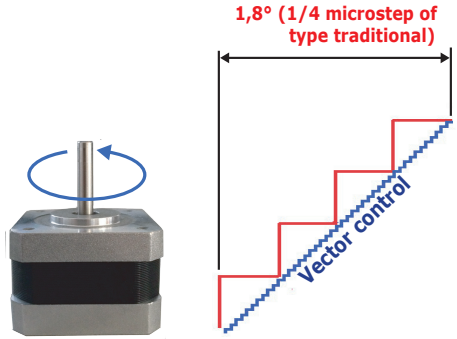
EVER MOTION SOLUTIONS
Via del Commercio, 2/4 -9/11
Loc. S. Grato - Z.I.
26900 - LODI (LO) - Italy
Tel. 0039 0371 412318 - Fax 0039 0371 412367
email infoever@everelettronica.it
www.everelettronica.it

Control Modes

Step & Direction



- Setting of the current value by means of roto-switches
- Selection of the step angle by means of roto-switches. In order to maintain compatibility with traditional drivers, step angles have been emulated through software, the current regulation is always sinusoidal.



- Possibility to select four user functions through dip-switches:

1 - enabling of motor stall detection.
Reading the motor BEMF, LW4 drivers detect without encoder the step loss, showing alarm status with the Fault digital OUT and a LED sequence.

2 - Step/Direction or Clock-Up / Clock-Down control mode.

3 - enabling or disabling of the Enable input.

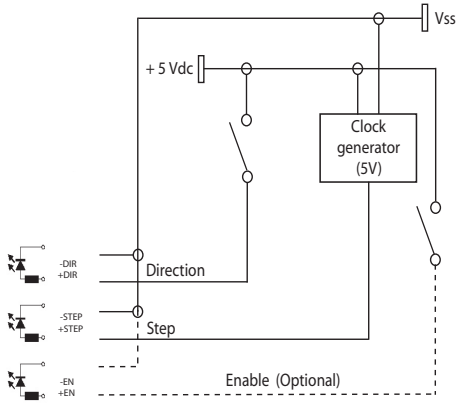
4 - 30% or 70% automatic current reduction (still motor).

Available Models

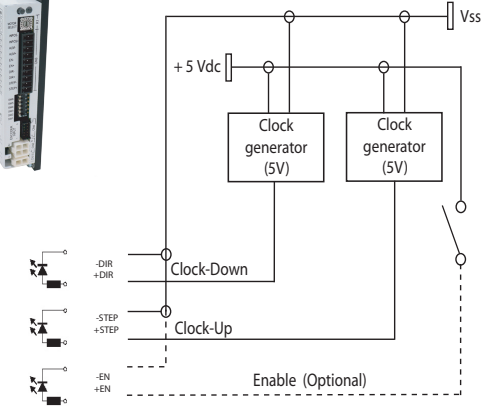
Mechanical Specifications

Inputs Connection

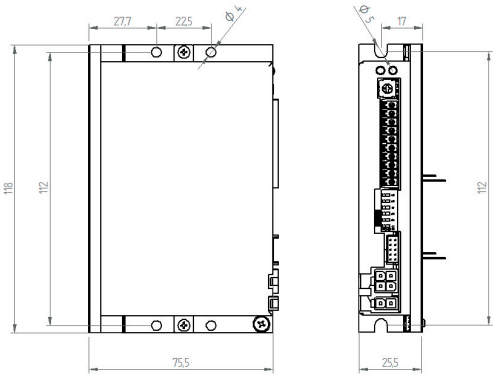
Connection of Step and Direction signals



Connection of Clock-Up & Clock-Down signals



Mechanical Data



Models	Dimensions (mm) H	L	W	Weight (g.)
LW4D3070N2I1-00	118.0	75.5	25.5	250

Ordering Information for LW4D Drives

Ordering code	Power		System resources			
Versions	**Power Supply**	**Current**	**Digital Inputs**	**Digital Outputs**	**Safety input**	**SCI Interface**
Azionamenti Serie LW4D: Modelli 3070						
LW4D3070N2I1-00	24 ~ 75 Vdc	7.1 Arms (10.0 Apeak)	3 opto isolated 5-24Vdc compatible NPN or PNP or Line Driver	2 opto isolated 24 Vdc 100 mA	---	For configuration and real time debug

Optional Kit for configuration	
Code	**Description**
EVER-PGM-1	Comunication Kit fot the Serial Service Interface.