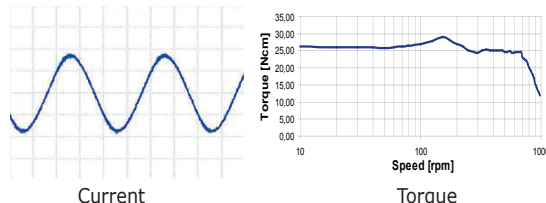


Main-features

✓ Vectorial control

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



✓ 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 supply	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



LW4D

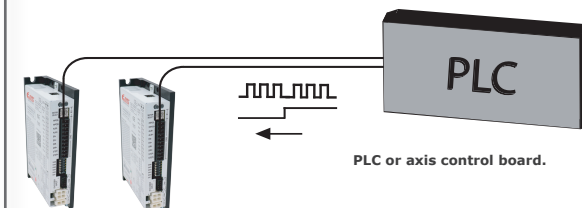
Titanio drivers

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

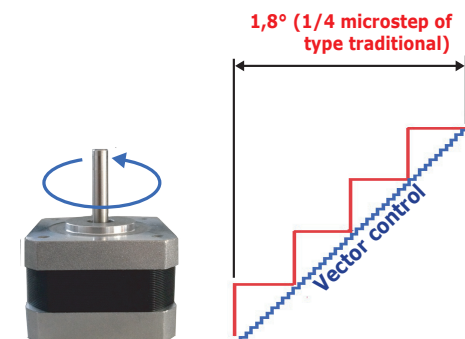


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email infoever@everelettronica.it
www.everelettronica.it

Step & Direction



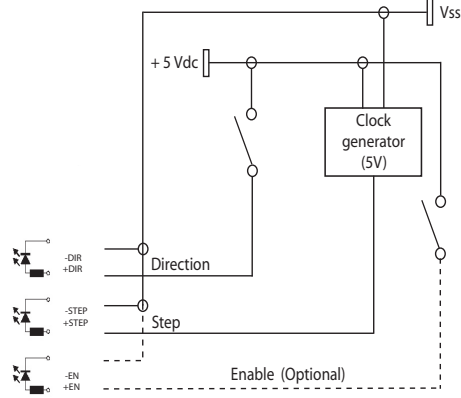
- Setting of the current value by means of roto-switches
- Selection of the step angle by means of roto-switches. In order to maintain compatibility with traditional drivers, step angles have been emulated through software, the current regulation is always sinusoidal.



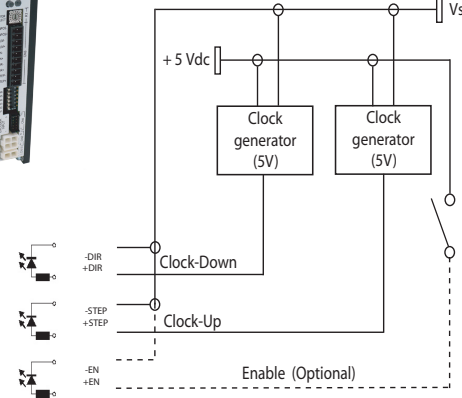
- Possibility to select four user functions through dip-switches:
 - 1 - enabling of motor stall detection. Reading the motor BEMF, LW4 drivers detect without encoder the step loss, showing alarm status with the Fault digital OUT and a LED sequence.
 - 2 - Step/Direction or Clock-Up / Clock-Down control mode.
 - 3 - enabling or disabling of the Enable input.
 - 4 - 30% or 70% automatic current reduction (still motor).

Inputs Connection

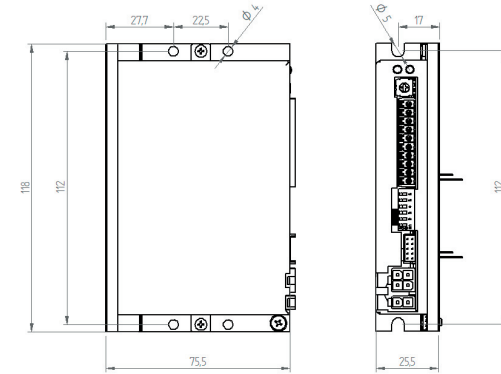
Connection of Step and Direction signals



Connection of Clock-Up & Clock-Down signals



Mechanical Data



Models	Dimensions (mm)			Weight (g.)
	H	L	W	
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

Opzional Kit for configuration

Code	Description
SW4_SERV00-SL	Communication Kit for the Serial Service Interface.