

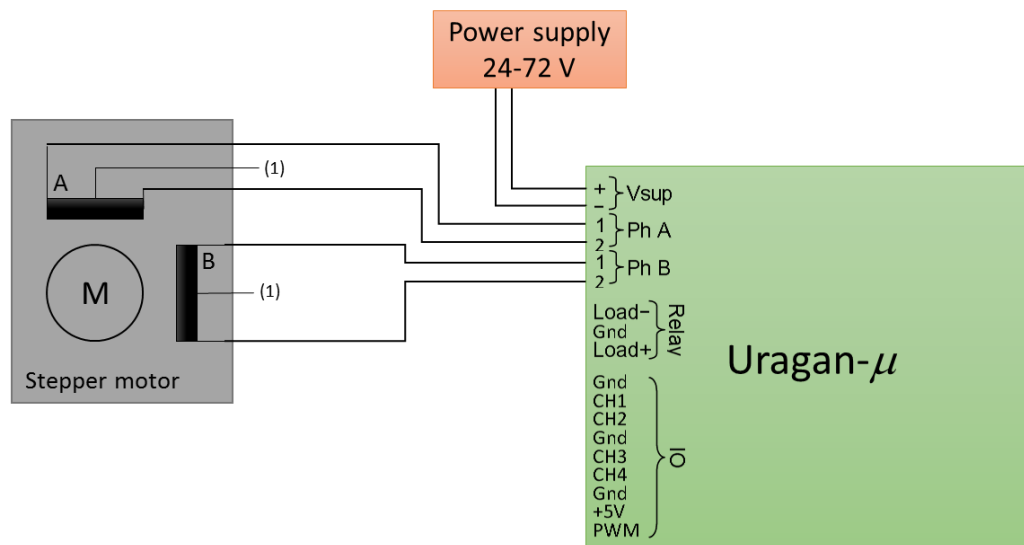
Uragan- μ wiring diagrams

Contents

General stepper motor.....	2
OWIS stepper motors	3
HiSM stepper motors	3
MiSM stepper motors	4
Connectors	4
Tips	5
IMPORTANT NOTICE	6

General stepper motor

Any stepper motor with two separate phase windings can be connected to the Uragan- μ . The phase windings are driven in bi-polar mode.



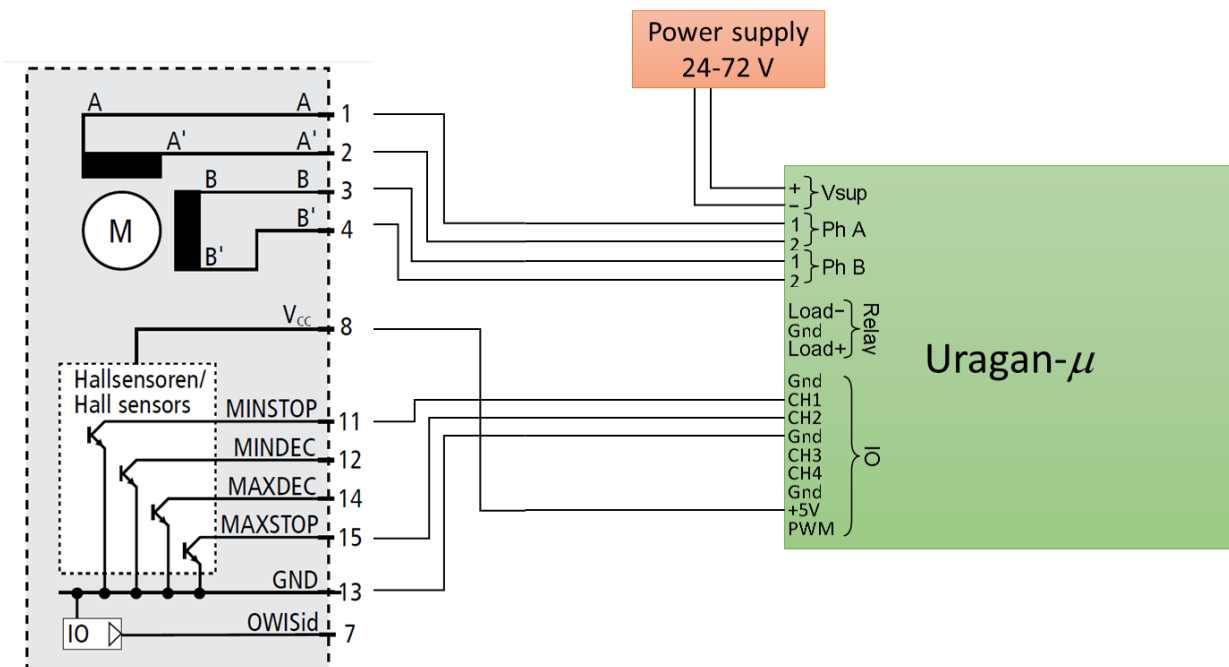
⁽¹⁾ Some stepper motors may have centre taps for each phase winding. Leave these centre taps unconnected.

OWIS stepper motors

Uragan- μ supports the MiSM and HiSM versions of the following OWI linear stages:

- LM 45
- MTM 60
- MTM 120
- LTM 45
- LTM 45M
- LTM 60
- LTM 60P/F/M
- LTM 80
- LTM 80P/F/M
- LTM 120
- LTM 120F/M

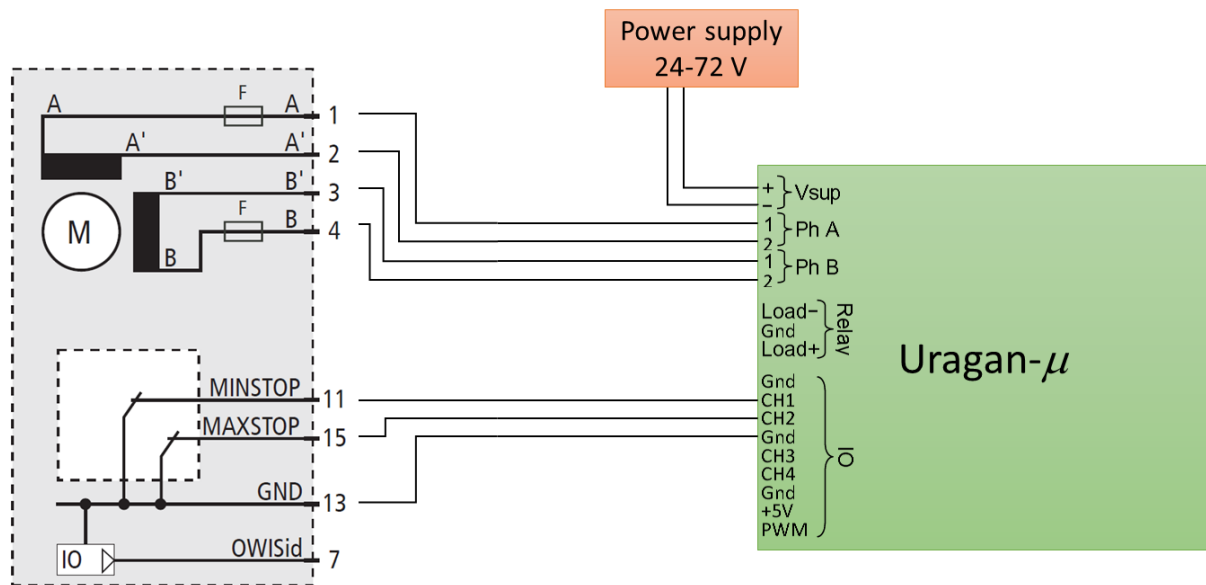
HiSM stepper motors



The HiSM versions use Hall sensors. The +5V auxiliary output from the Uragan-m can be used to power the Hall sensors. The MINSTOP and MAXSTOP limit switches can be connected to CH1 and CH2. Use the following limit switch configuration:

- Edge sense: Rising edge
- Pull configuration: Pull-up

MiSM stepper motors



The MiSM versions use micro-switches. The MINSTOP and MAXSTOP limit switches can be connected to CH1 and CH2. Use the following limit switch configuration:

- Edge sense: Rising edge
- Pull configuration: Pull-up

Connectors

All OWIS linear stage motors use D-Sub DE-15 connectors with the same pinout for MiSM and HiSM motors, respectively. It is possible to assembly your own cable. D-Sub DE-15 female connectors can be purchased from:

- RS Components (e.g. 745-5959)
- Conrad Electronics (e.g. 1048322-62, 736774-62)

Tips

If a stepper motor turns the wrong way, just swap the two cables of one of the phases.

IMPORTANT NOTICE

Synertronic Designs reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to Synertronic Designs' terms and conditions of sale supplied at the time of order acknowledgment.

Synertronic Designs assumes no liability for applications assistance or customer product design. Customers are responsible for their applications using Synertronic Designs products. To minimize the risks associated with customer applications, customers should provide adequate operating safeguards.

Reproduction of information in Synertronic Designs data sheets, summary notes and brochures is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. Reproduction of this information with alteration is an unfair and deceptive business practice. Synertronic Designs is not responsible or liable for such altered documentation.

Synertronic Designs on the web: www.synertronic.co.za

E-mail: info@synertronic.co.za

Postal address: Kaneel Cr 34
Stellenbosch
7600
South Africa