

Kohzu stages customization for *DESY PETRA III* (Date: 30. July 2018)

This customisation is standardized and agreed on with some customers of the facility and usually with the controls group. Please check each modification and let us know if you think something should be different.

It includes following modifications:

1. Motor

The standard motor (5 phase) on Kohzu stages will be exchange to a 2 phase motor (Vexta Orientalmotors). For some stage-sizes high-resolution types (400 steps instead of 200 steps per revolution) are available.

2. Shielding

The leads from the motor to the connectors are shielded.



3. Stage connector

The connection on the stage is a *LEMO FWG.1B.308*



4. Limit-Switches (optical or mechanical)

Standard Limits on Kohzu stages are optically (normally closed, “OK-output”).

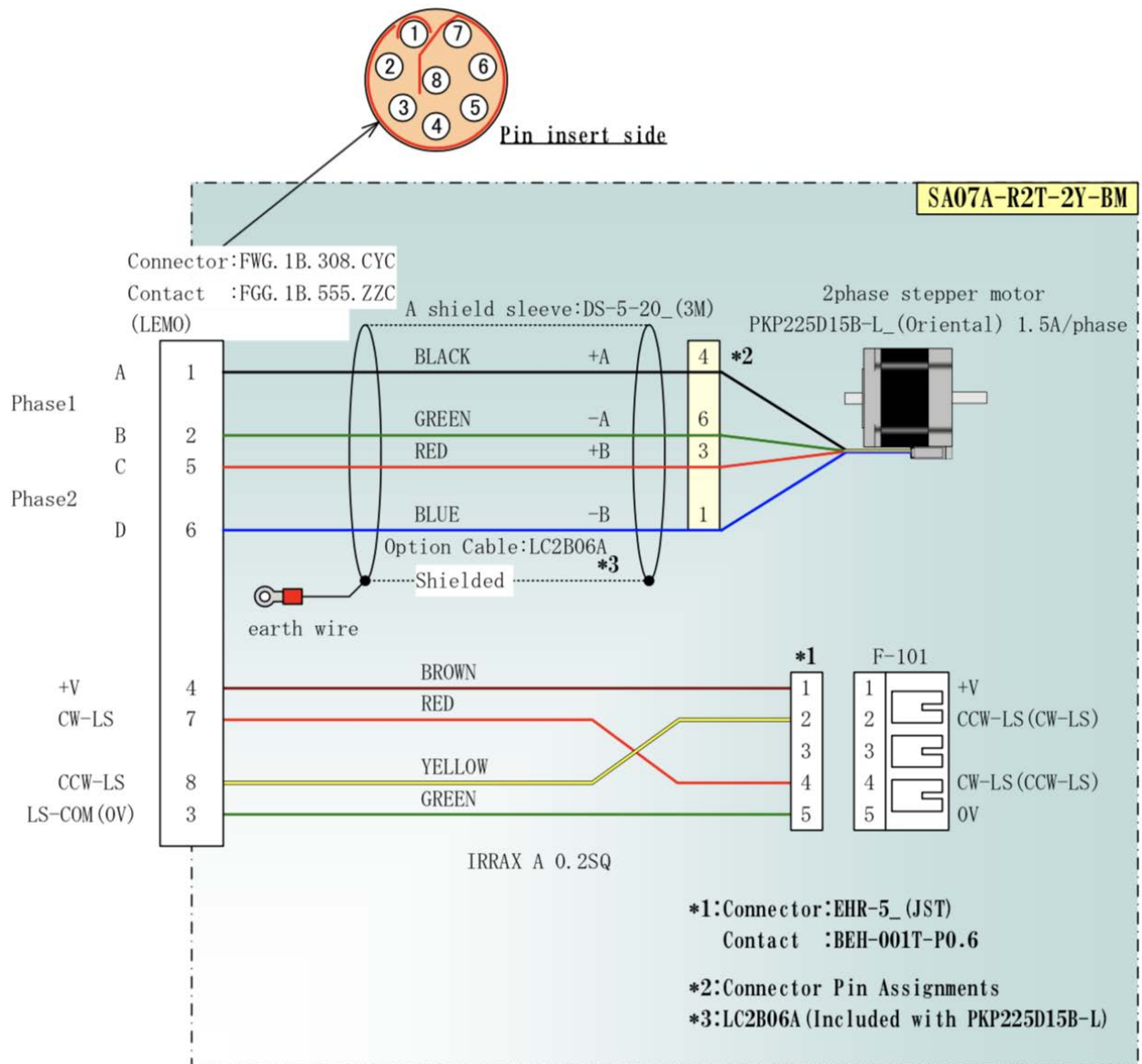
This is compatible with PETRA-III motor driver-unit.

Kohzu exchanges the limits on request to mechanical.



Cabling

The standard cabling will be changed to be customer specific.

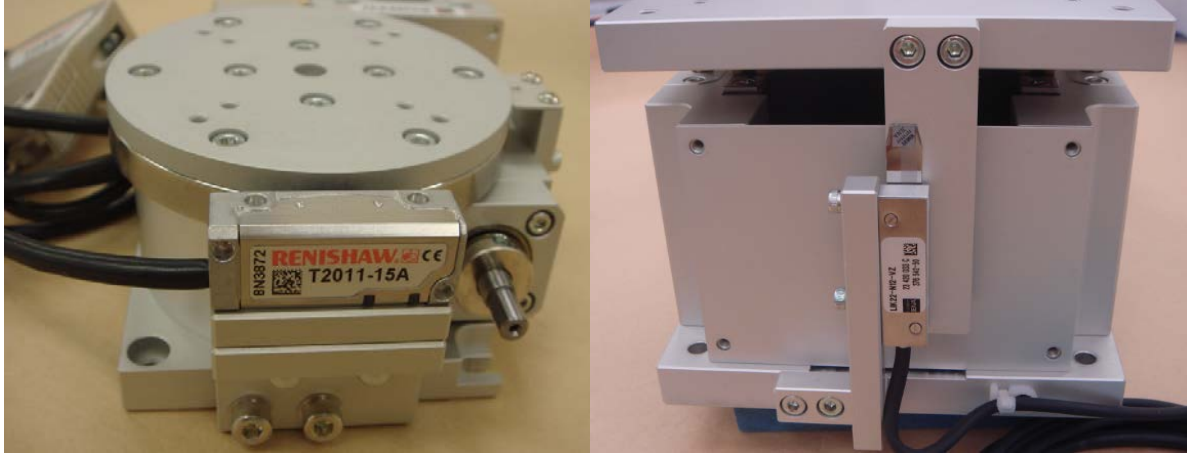


Kohzu wiring diagram of a specific stage (with optical limit switches)

Encoders

Kohzu provides absolute encoders (Renishaw) and incremental encoders (Renishaw/Jena) for air and vacuum applications as option on all stages.

Incremental Encoder



Absolute Encoder (Renishaw Resolute)

