

Kohzu stages customization for *MAX IV* (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 Souriau UT001412PH6 (12-pin MIL-C-26482 compatible shell size 14)



4. Limit-Switches

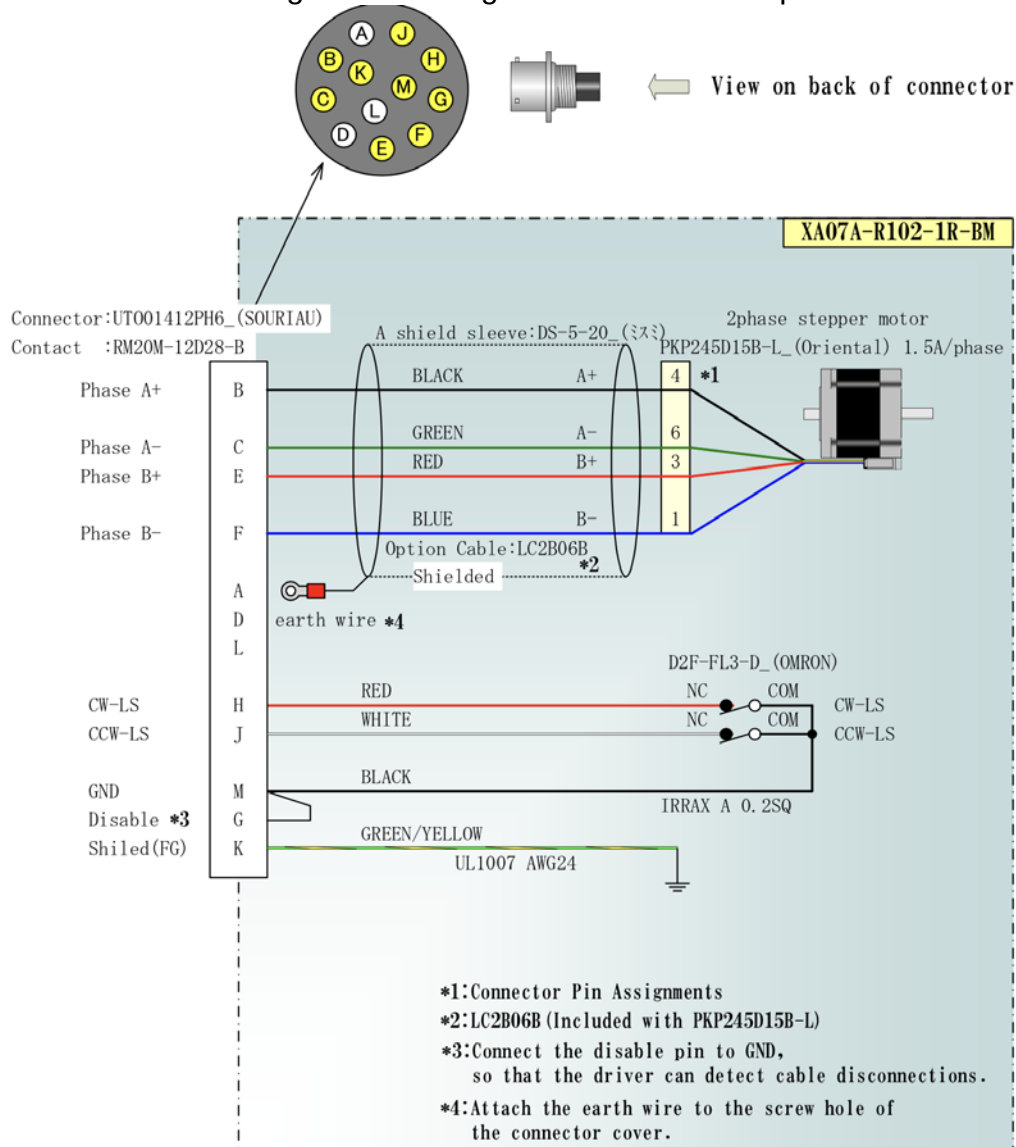
The standard limit-switches (optical, open-collector-output) on Kohzu stages will be exchanged to *mechanical limit-switches*.

Available signals: clockwise (CW-LS), counter-clockwise (CCW-LS), no home-signal.



Cabling

The standard cabling will be changed to be customer specific.



Kohzu wiring diagram of a specific stage

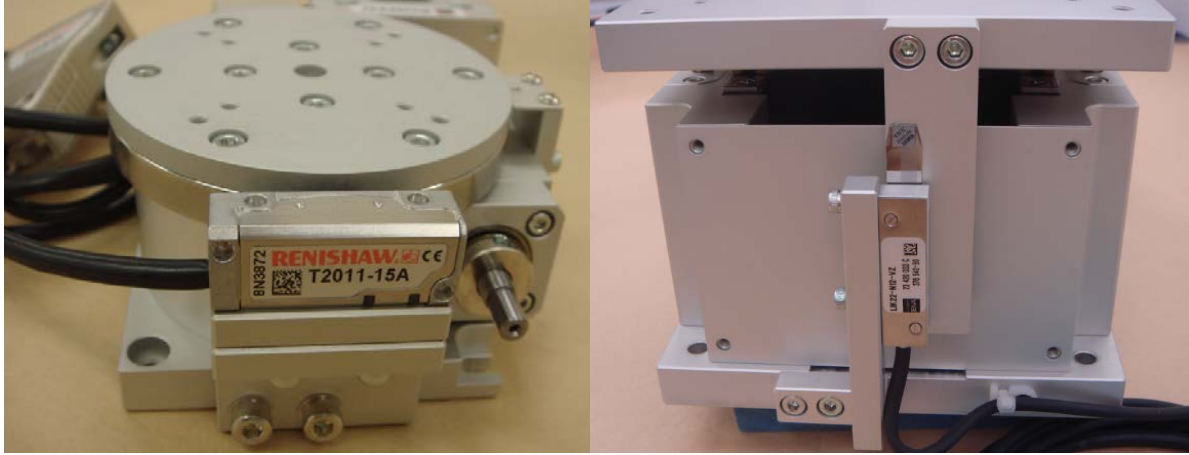
Connector on equipment side	Pin	Signal	Description
 12-pin male MIL-C-26482 compatible shell size 14 socket Example of connector codes: Souriau Trim Trio UT001412PH Souriau Trim Trio UT001412PH6	A	Home	Mechanical reference
	B	PhaseA+	Motor power
	C	PhaseA-	
	D	n/c	
	E	PhaseB+	
	F	PhaseB-	
	G	Disable	Remote Disable
	H	Limit+	Travel limits
	J	Limit-	
	K	Shield	
	L	5Vpower	Aux power supply
	M	GND	

copy from document: MAX-IV Motion control standard 2.3 Date 170630

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)

