Installation guide H-2000-5335-05-B



Wiring diagrams for Heidenhain iTNC 530 HSCI and TNC 620, 640

Before you begin

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Before you begin

Warranty

Equipment requiring attention under warranty must be returned to your equipment supplier.

Unless otherwise specifically agreed in writing between you and Renishaw, if you purchased the equipment from a Renishaw company, the warranty provisions contained in Renishaw's CONDITIONS OF SALE apply. You should consult these conditions in order to find out the details of your warranty but, in summary, the main exclusions from the warranty are if the equipment has been:

- · neglected, mishandled or inappropriately used; or
- modified or altered in any way except with the prior written agreement of Renishaw.

If you purchased the equipment from any other supplier, you should contact them to find out what repairs are covered by their warranty.

Changes to equipment

Renishaw reserves the right to change specifications without notice.

Equipment operation

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired or could cause injury.

REACH regulation

Information required by Article 33(1) of Regulation (EC) No. 1907/2006 ("REACH") relating to products containing substances of very high concern (SVHCs) is available at: www.renishaw.com/REACH

Before you begin

Safety

Information for the user

In all applications involving the use of machine tools or CMMs, eye protection is recommended.

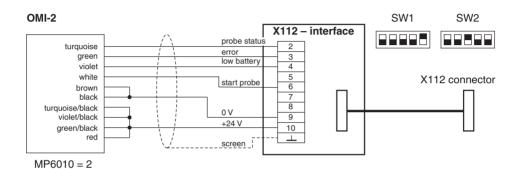
Remove power before performing any maintenance operations.

It is the machine supplier's responsibility to ensure that the user is made aware of any hazards involved in operation, including those mentioned in Renishaw product documentation, and to ensure that adequate guards and safety interlocks are provided.

Under certain circumstances the probe signal may falsely indicate a probe-seated condition. Do not rely on probe signals to stop machine movement.

The expected method of providing an emergency stop for Renishaw products is to remove power.

Wiring diagram - OMI-2 to Heidenhain X112 connector

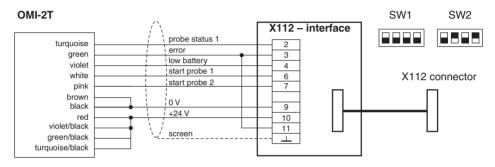


Wiring diagram - OMI-2C to Heidenhain X112 connector

OMI-2C X112 – interface probe status turauoise pin 4 2 error pin 5 green 3 low battery violet pin 6 4 pin 3 white 5 X112 connector start probe 6 7 8 0 V pin 1 black 9 +24 V pin 2 red 10 screen pin 7 grey

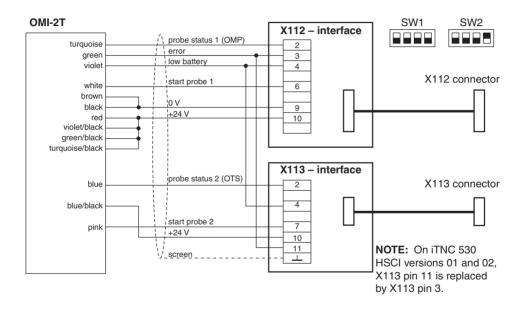
MP6010 = 2

Wiring diagram - OMI-2T to Heidenhain X112 connector

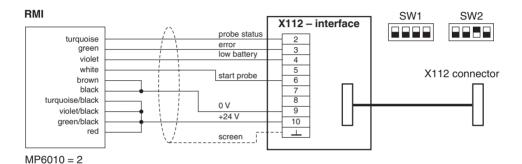


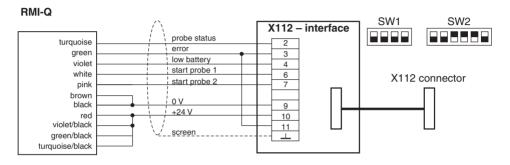
i530 only MP6508 = 1 (both probes on X112)

i620/i640 select X112 option in TS configuration screen to enable 2nd probe option on X112



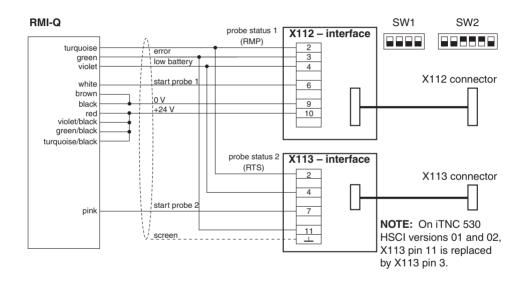
Wiring diagram - RMI to Heidenhain X112 connector

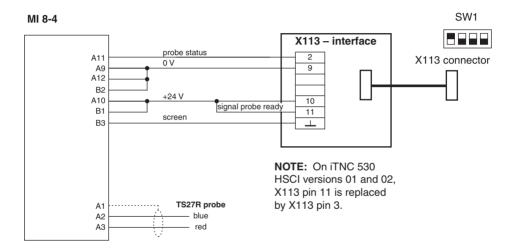


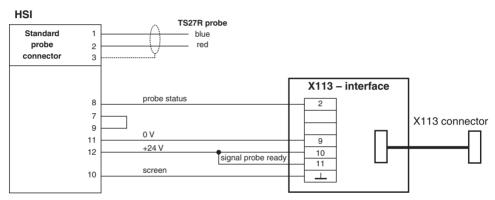


i530 only MP6508 = 1 (both probes on X112)

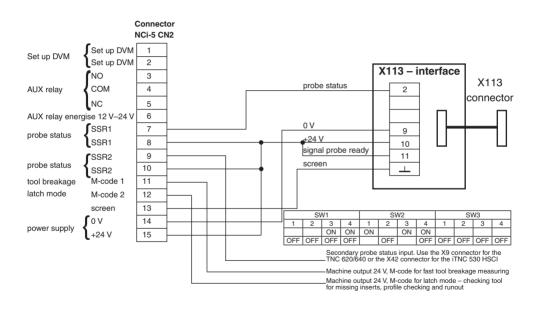
i620/i640 select X112 option in TS configuration screen to enable 2nd probe option on X112



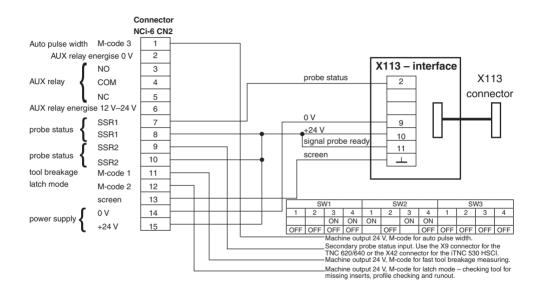


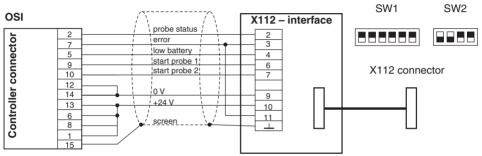


NOTE: On iTNC 530 HSCI versions 01 and 02, X113 pin 11 is replaced by X113 pin 3.



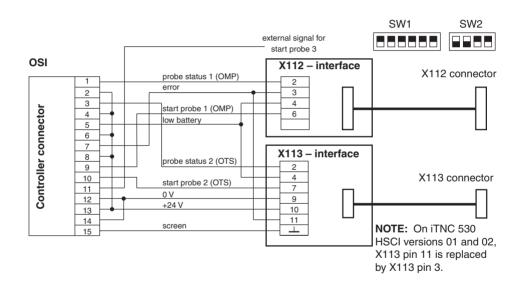
Wiring diagram - NCi-6 to Heidenhain X113 connector





i530 only MP6508 = 1 (both probes on X112)

i620/i640 select X112 option in TS configuration screen to enable 2nd probe option on X112



For OMM-2 wiring, see OSI with OMM-2 multiple optical probe interface system installation guide. H-5492-8504

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