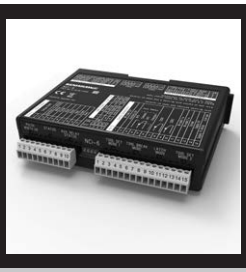
RENISHAW
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NCi-6 non-contact tool setting interface



www.renishaw.com/nci-6

Specification

Principal application	The NCi-6 processes signals from the NC4 or NC4+ and converts them into a voltage-free solid state relay (SSR) output, which is transmitted to the CNC machine control.
Supply voltage	11 Vdc to 30 Vdc.
Supply current	NC4 or NC4+ connected: 120 mA @ 12 V, 70 mA @ 24 V
Output signal	Two voltage-free solid state relay (SSR) outputs configurable normally open or normally closed, one of which can be configured level, oscillating or pulsed (pulse width can be 20 ms or 100 ms).
Auxiliary relay	Auxiliary relay for skip sharing with a spindle probe system or controlling the transmitter separately from the receiver. May alternatively be used to operate an air blast solenoid or auxiliary item.
Supply protection	0.5 A resettable fuse. Reset by removing power and cause of fault, then re-powering.
Input/output protection	SSR outputs protected by 50 mA resettable fuses. Auxiliary relay output protected by a 200 mA resettable fuse. Reset by removing power and cause of fault, then re-powering.
Response time	The system electronics will detect when the laser beam is blocked within 9 µs.
Diagnostic LEDs	Beam status, latch mode, high-speed tool breakage detection mode, auxiliary relay, Tool Set Mode 1, Tool Set Mode 2, pulse width.
Modes of operation	High-speed tool breakage detection mode. Measurement modes – Tool Set Mode 1. – Tool Set Mode 2. Latch mode – for profile checking and cutting edge checking. Drip rejection mode – rejects random drops of coolant falling through the beam.
Mounting	DIN rail. Alternative mounting using screws.
Temperature limit	Operating 5 °C to 55 °C (41 °F to 131 °F). Storage −25 °C to 70 °C (−13 °F to 158 °F).
Life	Tested to >1 million on/off cycles.
Dimensions	Compact size 134 mm × 107.6 mm × 34.6 mm (5.28 in × 4.24 in × 1.36 in).

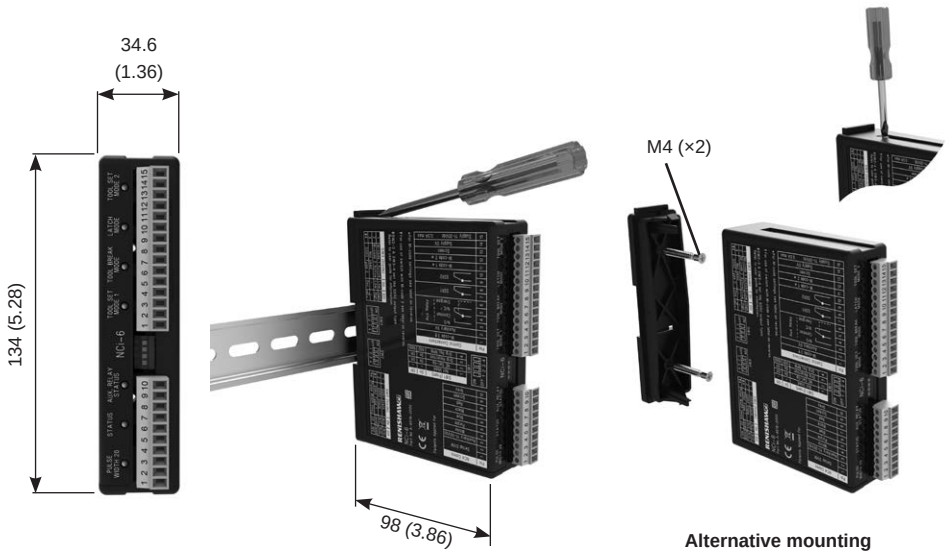
For further information and the best possible application and performance support please contact Renishaw or visit **www.renishaw.com/nci-6**.

Renishaw plc
New Mills, Wotton-under-Edge
Gloucestershire, GL12 8JR
United Kingdom

T +44 (0)1453 524524
F +44 (0)1453 524901
E uk@renishaw.com
www.renishaw.com

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NCi-6 dimensions and mounting arrangements

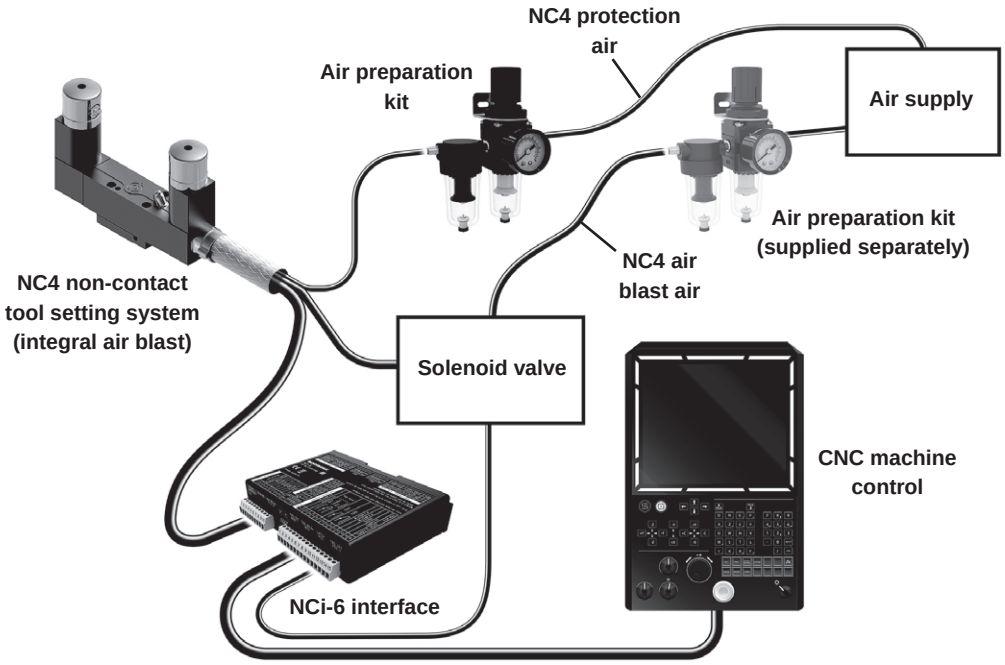


Standard DIN rail mounting

Alternative mounting

Dimensions given in mm (in)

Typical NCi-6 installation



Spare parts and accessories

A full range of spare parts and accessories is available.
Please contact Renishaw for a full list.

For worldwide contact details, visit www.renishaw.com/contact

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