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Controller requirements: SupaScan

Fanuc Series 0–3x*i*

The information within this document provides the minimum recommended controller requirements to enable use of the SupaScan system on a machining centre with a Fanuc Series 0–3x*i* controller.

NOTE: Part numbers and descriptions within this document relating to items provided by organisations other than Renishaw are provided for information only. Whilst every effort has been made to ensure these are accurate, contact the machine tool builder, controller OEM or distributor for confirmation before purchasing.

Fanuc Series 0–21*i* MODEL A

Controller option	Option number
High-speed serial bus (HSSB) extended driver library option	A02B-0207-J900 [1]
1 × Ethernet port	
3 × pairs of latched M-codes (high-speed digital outputs)	
1 × skip (high-speed or standard)	A02B-03xx-J848 [2]
'Macro B' user macro option	
Custom macro option (common variables)	
OPTIONAL	
Interruption type custom macro (UINT) (for overtravel protection)	A02B-03xx-J874 [2]

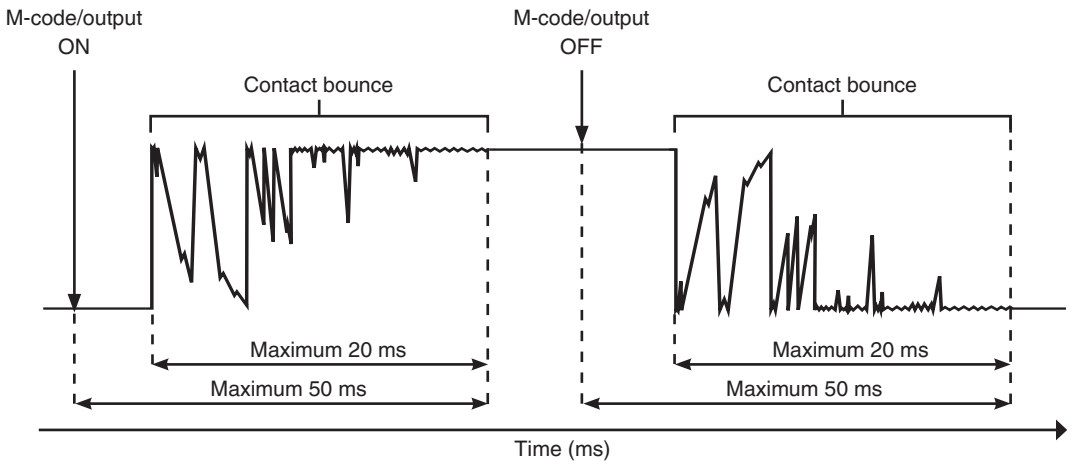
Fanuc Series 30–32*i* MODEL A, Series 0–3x*i* MODEL B

Controller option	Option number
1 × Ethernet port	
3 × pairs of high speed M-codes / digital outputs	
1 × skip (high-speed or standard)	A02B-03xx-J848 [2]
'Macro B' user macro option	
Custom macro option (common variables)	
OPTIONAL	
Interruption type custom macro (UINT) (for overtravel protection)	A02B-03xx-J874 [2]

[1] A HSSB card is not required with this software option.

[2] Contact Fanuc for further information and the appropriate option number.

Output signal requirements



Any increase in these values will impact negatively on cycle times and may prevent the system working reliably.

The 3 × pairs of latched M-codes (high-speed digital outputs) should be reset when Reset is pressed on the CNC machine tool.

The output/input signal level change must be from 0 V to between 5 V and 30 V.

Use of solid-state relays is recommended as issues can arise from noise on mechanical relay contacts (contact debounce time of 20 ms maximum).

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