RENISHAW
apply innovation™

Controller requirements: SupaScan

Siemens SINUMERIK 840D solution line and 828D

The information within this document provides the minimum recommended controller requirements to enable use of the SupaScan system on a machining centre with a Siemens SINUMERIK 840D solution line or 828D 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.

Siemens SINUMERIK 840D solution line (HMI Base)

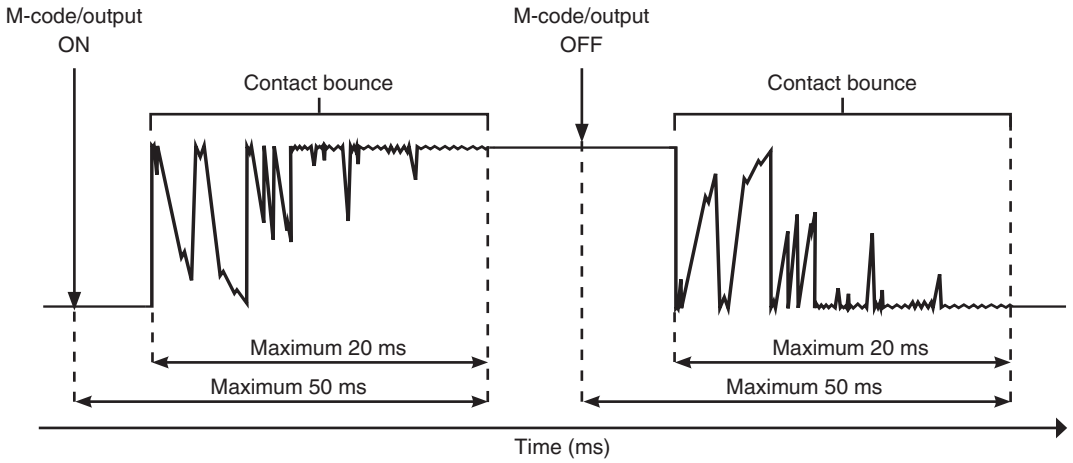
Controller option	Option number
SINUMERIK Integrate Run MyHMI / 3GL software option P60 or SINUMERIK Integrate Run MyHMI / 3GL option P65 (for Siemens Solution Partners) or SINUMERIK Operate runtime licence option P66	6FC5800-0AP60-0YB0 6FC5800-0AP65-0YB0 6FC5800-0AP66-0YB0
1 x Ethernet port	
3 x pairs of latched M-codes (high-speed digital outputs)	
1 x high-speed probe sensor input	
OPTIONAL	
1 x high-speed digital input (for overtravel protection)	

Siemens SINUMERIK 840D solution line and 828D (OPC UA)

Controller option	Option number
SINUMERIK 828D/840D SL OPC UA software option P67 [1]	6FC5800-0AP67-0YB0
1 x Ethernet port	
3 x pairs of latched M-codes (high-speed digital outputs)	
1 x high-speed probe sensor input	
OPTIONAL	
1 x high-speed digital input (for overtravel protection)	

Contact Siemens for further information and the appropriate option number(s).

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).

+44 (0) 1453 524524 uk@renishaw.com

Part no.: H-5465-8530-02-B
Issued: 08.2022