

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)

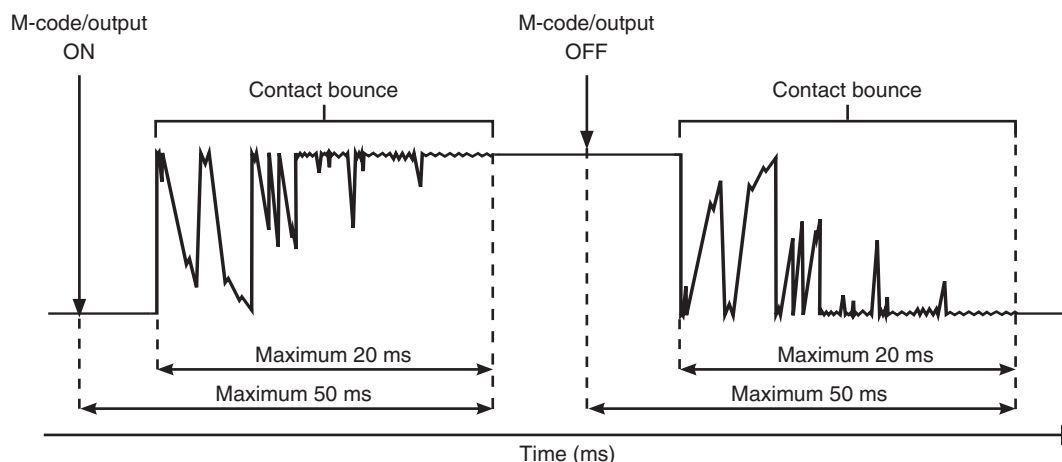
Controller option	Option number
SINUMERIK Integrate Run MyHMI / 3GL software option P60 or SINUMERIK Integrate Run MyHMI / 3GL option P65 (for Siemens Solution Partners) or SINUMERIK Operate runtime licence option P66	6FC5800-0AP60-0YB0 6FC5800-0AP65-0YB0 6FC5800-0AP66-0YB0
1 x Ethernet port	
3 x pairs 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).

www.renishaw.com/supascan



#renishaw

+44 (0) 1453 524524

uk@renishaw.com

© 2016–2022 Renishaw plc. All rights reserved. This document may not be copied or reproduced in whole or in part, or transferred to any other media or language by any means, without the prior written permission of Renishaw.

RENISHAW® and the probe symbol are registered trade marks of Renishaw plc. Renishaw product names, designations and the mark 'apply innovation' are trade marks of Renishaw plc or its subsidiaries. Other brand, product or company names are trade marks of their respective owners.

WHILE CONSIDERABLE EFFORT WAS MADE TO VERIFY THE ACCURACY OF THIS DOCUMENT AT PUBLICATION, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS AND LIABILITY, HOWSOEVER ARISING, ARE EXCLUDED TO THE EXTENT PERMITTED BY LAW. RENISHAW RESERVES THE RIGHT TO MAKE CHANGES TO THIS DOCUMENT AND TO THE EQUIPMENT, AND/OR SOFTWARE AND THE SPECIFICATION DESCRIBED HEREIN WITHOUT OBLIGATION TO PROVIDE NOTICE OF SUCH CHANGES.

Renishaw plc. Registered in England and Wales. Company no: 1106260. Registered office: New Mills, Wotton-under-Edge, Glos, GL12 8JR, UK.

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

Issued: 08.2022