

Thumbwheel Interface IC610MDL105

This module provides an interface between the Series One or Series One Plus PCs and up to four sets of user supplied thumbwheels. Each set of thumbwheels will allow the operator to control the preset on a timer or counter. In fact, these timer/counters (references 674 to 677) will not function without this interface module. The power (24 V dc) to sense the state of these thumbwheels is provided by the power supply in the CPU base unit. This interface module must be installed in the same base unit as the CPU and can only be located in slots 2 through 5. Only one interface module is allowed per system. The thumbwheels and their associated wiring must be supplied by the user. The thumbwheels are standard BCD coded and diode isolated, a standard option available with most thumbwheels. The following is the required setting for each digit of the thumbwheel:

Digit	Internal	Switch	Closure	(X=Closed)
Value	8	4	2	1
0				
1				X
2			X	
3			X	X
4		X		
5		X		X
6		X	X	
7		X	X	X
8	X			
9	X			X

Whenever the interface is installed in the CPU base unit, eight discrete references are assigned to this module slot. These references have no significance relative to the operation of the interface. They can be used as internal coils, but not as status to other hardware I/O. All four presets are read into the Series One or Series One Plus PC each scan. Figure 6.39 illustrates the wiring for the 20 terminals on the interface module. No special terminations are required for circuits that are not being used.

One thumbwheel is read into the CPU every scan assuring rapid response to new values. Care should be used when changing the value on the thumbwheels, since intermediate values can be brought in and used during a scan or for several scans. For example, if the thumbwheel is set for the value 095 and the new value 105 is desired, altering the hundreds digit first results in 195 being detected and used by the CPU, until the tens digit is changed from 9 to 0. Normally, higher values are more acceptable than lower values and the natural tendency to enter new values from the left or high order digit will result in larger values. However, if the tens digit is changed first, the value 005 could be read prior to the 105 being set. The exact results depend upon the application and the specific logic entered.

Internal Power Consumption

90 mA @ 24 V dc (9 units of load)

10 mA @ 9 V dc (1 unit of load)

I/O Specifications and Wiring

6-37

GEK-90842

pc-s1-83-0073

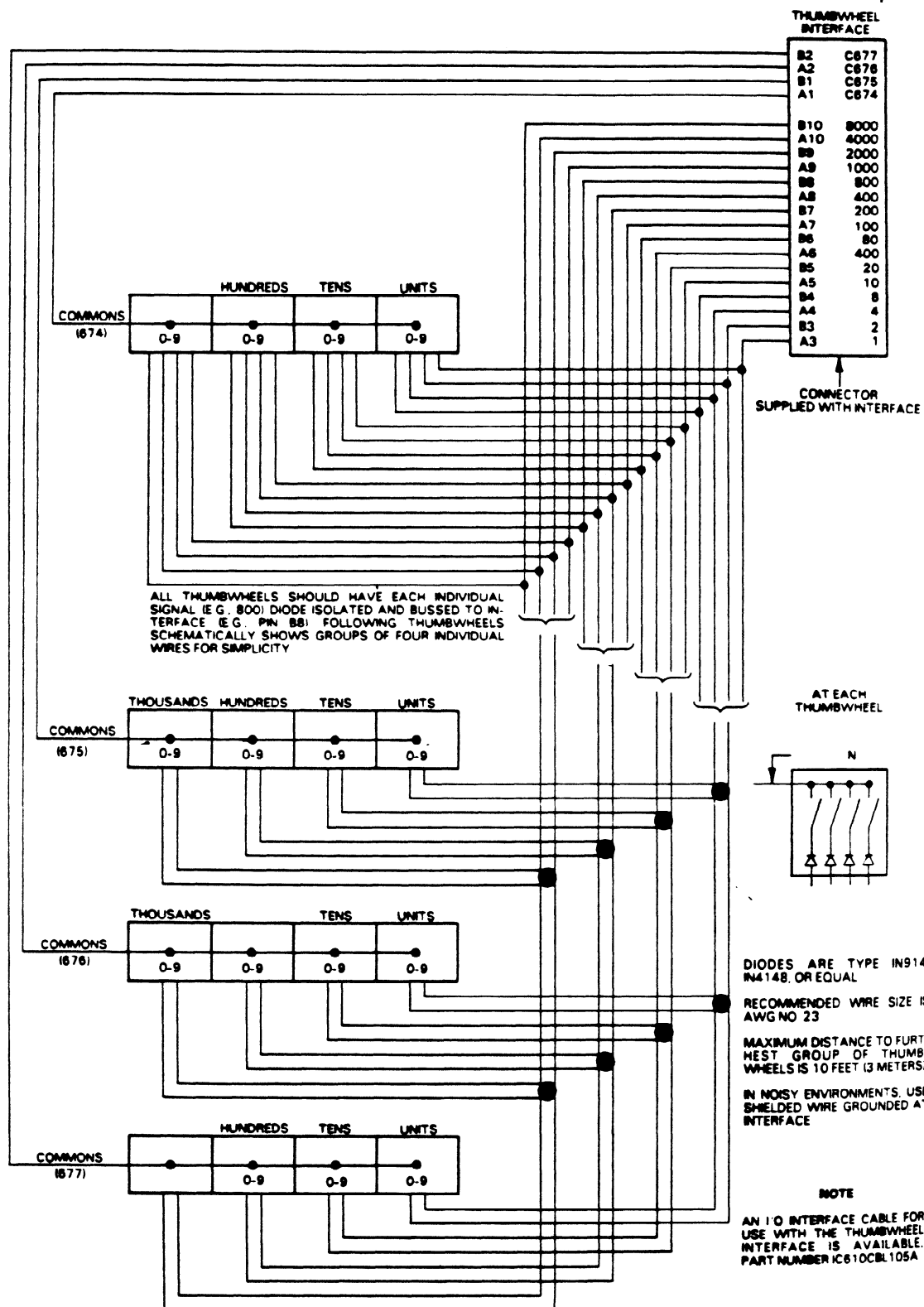


Figure 6-39. Wiring for Thumbwheel Interface

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I/O Specifications and Wiring

GEK-90842

pc-s1-83-0067

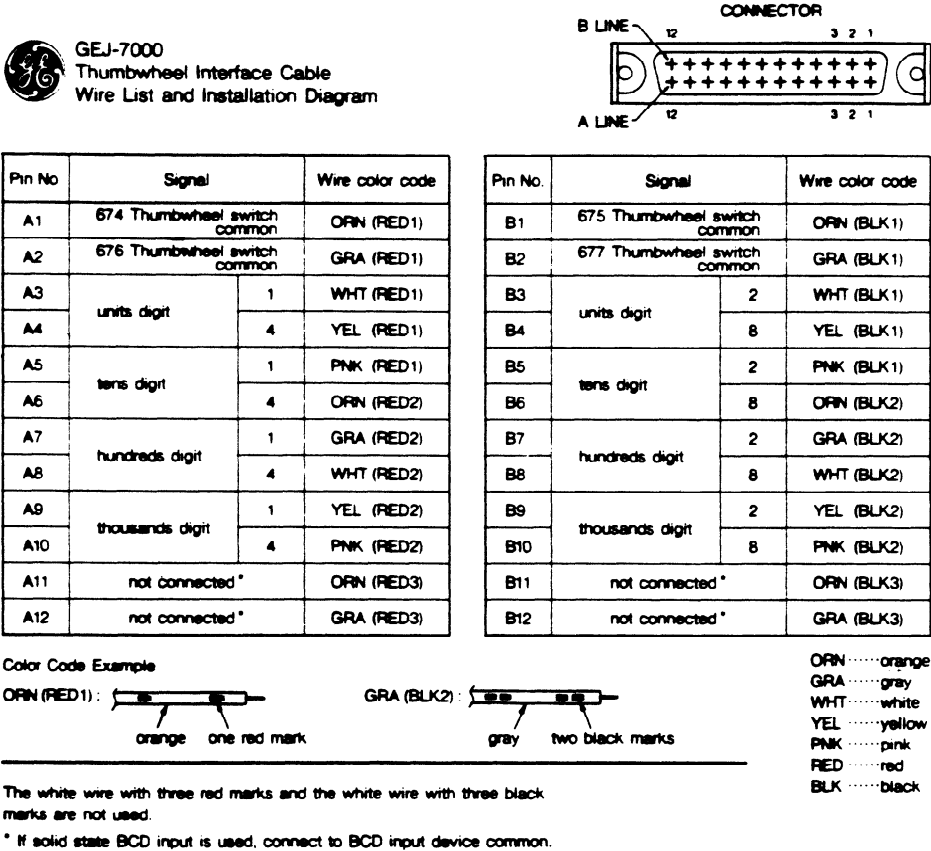


Figure 6-40. Thumbwheel Interface Cable Wire List

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