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\ Forth Code to control the DC Relay Module
HEX
\ Relays are active low (i.e. writing a 0 to the relay turns it on).
O CONSTANT RELAY ON
    CONSTANT RELAY OFF
: Control DC Relay ( byte1\byte2\byte3 -- )
\ Sets the relay number to the appropriate state (on or off).
\ byte1 = Module Number. Valid module numbers are 0-7.
\ byte2 = Relay Number. Valid relay numbers are 0-2.
\ byte3 = Relay State. Valid relay states are RELAY ON or RELAY OFF
locals{ &state &relay_num &module }
 &state
  ΙF
                             \ turn relay off
   &state &relay num SCALE
   RELAY CONTROL REGISTER &module SET.BITS
                             \ turn relay on
   1 &relay num SCALE
   RELAY CONTROL REGISTER &module CLEAR.BITS
 ENDIF
;
: Read DC Relay Status (byte -- | byte = module number)
\ Reads the current state of the DC Relays. Valid module numbers are
\ Returns a character whose three least significant bits represents the
\ three relays. For example, if 1 is returned (001 in binary), then
Relay 0
\ is off and the other relays are on. If 6 is returned (110 in
\ then relays 1 and 2 are off and 0 is on. The 5 most significant bits
do
\ not matter.
 RELAY CONTROL REGISTER SWAP C@
```