

# T180 Module - Eight-Way Digital Output

## SPECIFICATION

Outputs: 8 identical digital, open drain  
with s/w selectable pull-up voltage  
Processor Read-back: all outputs  
Read-back Threshold:  $\approx 2.5V$   
Read-back Input Filter:  $20\mu s$   
Hardware Response Time: 0.1 sec./  
channel

### Logic 0, Output Low

Current Sink Capability: 120mA max  
'ON' Resistance:  $4\Omega$  max

### Logic 1, Output High

Open Drain Voltage: 60V max  
Pull-up Voltages (s/ware selectable):  
none (open drain), 5V, 15V, 24V  
Internal Pull-up Resistor  $10\Omega$

## DESCRIPTION

Figure 37 shows the inside of the T180 module, with connections corresponding to the door label.

The T180 eight-channel digital output module may be configured for either open-drain or logic output signals. This is set in the software, and all eight channels are configured for the same type of output. The connections for the open-drain output (with no pull-up voltage) are shown in Figure 38. Pins 9 and 10, the 0V ground, are interchangeable for both types of output.

## Logic Output

The logic output connections, with a pull-up voltage of 5V, 15V or 24V, are shown in Figure 39. The pull-up voltage level is selected via the software configurator.

Order Code. T180/TAG-----  
(if the TAG is not specified it will be supplied blank).

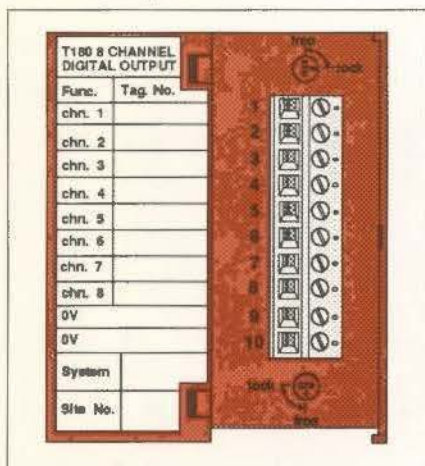


Figure 37 Eight Way Digital Output Module

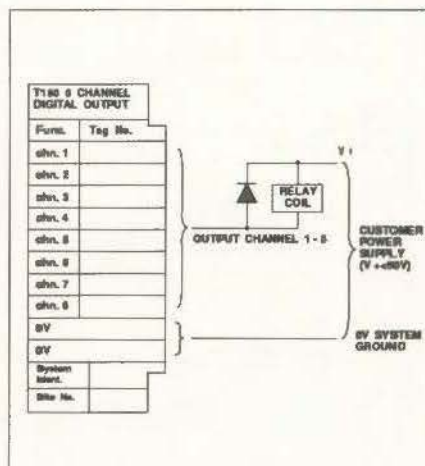


Figure 38 Open-Drain Output (No Pull-Up Voltage)

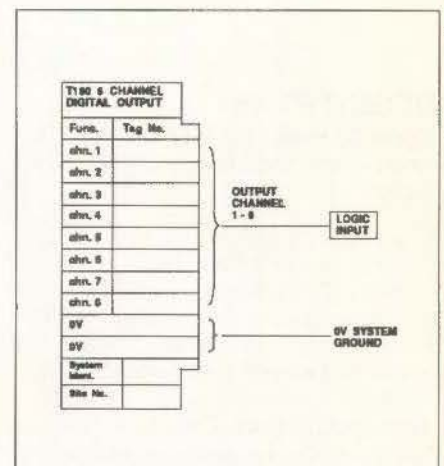


Figure 39 Logic Output (Pull Up Voltage)