

Switch output codes and contact arrangements

To determine the most suitable output code or contact arrangement for your digital switch application, it is most convenient to study and understand the "truth table" (see following Truth Table pages), a graphical method of describing the inter-relationships of output-line(s) to common line(s) in order to develop encodable output signals from each device which are compatible with the user's equipment.

The truth table simply defines, for each dial setting of the switch, which output line or combination of output lines are connected to one or more common terminals.

"Active terminals" are those which are connected to a common(input) at a particular dial position.

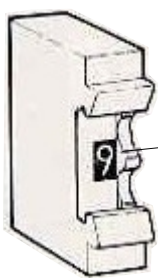
The figure below shows the relationship of a "Ten Position Binary Coded Decimal" output code with a dial which reads zero to nine(0-9).

There is one common(C) terminal which can be connected to any one, or combination, of the four discrete terminals, numbered 1,2,4,8.

In this code, the common is connected to the terminals at the corresponding dial positions as illustrated.

Terminal numbers on the printed circuit board correspond to the numbers in the truth table. The setting at Number 9 indicates that the common(C) is connected to lines (terminals) 1 and 8. Lines(terminals) 2 and 4 are inactive or "open."

Digitran's files are bulging with hundreds of special codes. Only 25 of the most commonly used codes are listed below. If the code you need is not featured herein, please inquire as to its availability in the switch series you wish to use.

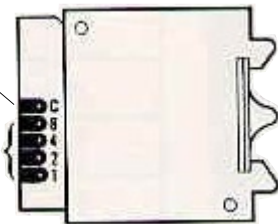


DIAL SETTING

DIAL	COMMON C CONN. TO TERMINALS			
	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•			
6		•	•	
7	•	•	•	
8				•
9	•			•

COMMON

TERMINALS



Truth Table Examples

004 Binary Coded Octal - 8 Positions

DIAL	COMMON C CONNECTED TO		
	1	2	4
0			
1	•		
2		•	
3	•	•	
4			•
5	•		•
6		•	•
7	•	•	•

043 Binary Coded Decimal - 12 Positions

DIAL	COMMON C CONNECTED TO:			
	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•			
6		•	•	
7	•	•	•	
8				•
9	•			•
10		•		•
11	•	•		•

048 Binary Coded hexadecimal, one Common - 16 Positions

DIAL	COMMON C CONN. TO TERMINALS			
	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•			
6		•	•	
7	•	•	•	
8				•
9	•			•
10		•		•
11	•	•		•
12			•	•
13	•		•	•
14		•	•	•
15	•	•	•	•