

Remote Shutter Control Box Description

The BC-016 circuit has 6 inputs, 12 outputs, and 2 modes of operation. The 6 inputs are TTL-compatible. There are two outputs (relay contact closures) per input. For each "channel" (1 input and its associated 2 outputs), there are 2 switch selectable modes of operation. These are one-shot mode and continuous mode.

In one-shot mode, there is a positive edge triggered circuit and a negative edge triggered circuit. If either of these events occur, a contact closure of ~1 sec. will be in effect on the appropriate output (see chart below).

When switched to continuous mode, a TTL high on the ch1 input will result in a contact closure on the "pos trig'd 1" output. A TTL low will open the contacts. The "neg trig'd 1" output is simply inverted.

The following charts summarize the circuit's operation for each channel:

ONE SHOT MODE:

IN	pos-trig	neg-trig
RE	-/-\	OPEN
FE	OPEN	-/-\

Note: RE=Rising Edge, FE=Falling Edge
-/-\ = open, closed, open; ~1 sec.

CONTINUOUS MODE:

IN	pos-trig	neg-trig
0	OPEN	CLOSED
1	CLOSED	OPEN

Pinout for the Remote Shutter Controller's db25 (F):

1	... pos trig'd 1 +	14	... pos trig'd 1 +
2	... neg trig'd 1 +	15	... neg trig'd 1 -
3	... pos trig'd 2 +	16	... pos trig'd 2 +
4	... neg trig'd 2 +	17	... neg trig'd 2 -
5	... pos trig'd 3 +	18	... pos trig'd 3 +
6	... neg trig'd 3 +	19	... neg trig'd 3 -
7	... pos trig'd 4 +	20	... pos trig'd 4 +
8	... neg trig'd 4 +	21	... neg trig'd 4 -
9	... pos trig'd 5 +	22	... pos trig'd 5 +
10	... neg trig'd 5 +	23	... neg trig'd 5 -
11	... pos trig'd 6 +	24	... pos trig'd 6 -
12	... neg trig'd 6 +	25	... neg trig'd 6 -
13	NC		

Note: The "polarity" of these signals is irrelevant since they're relay contacts.