



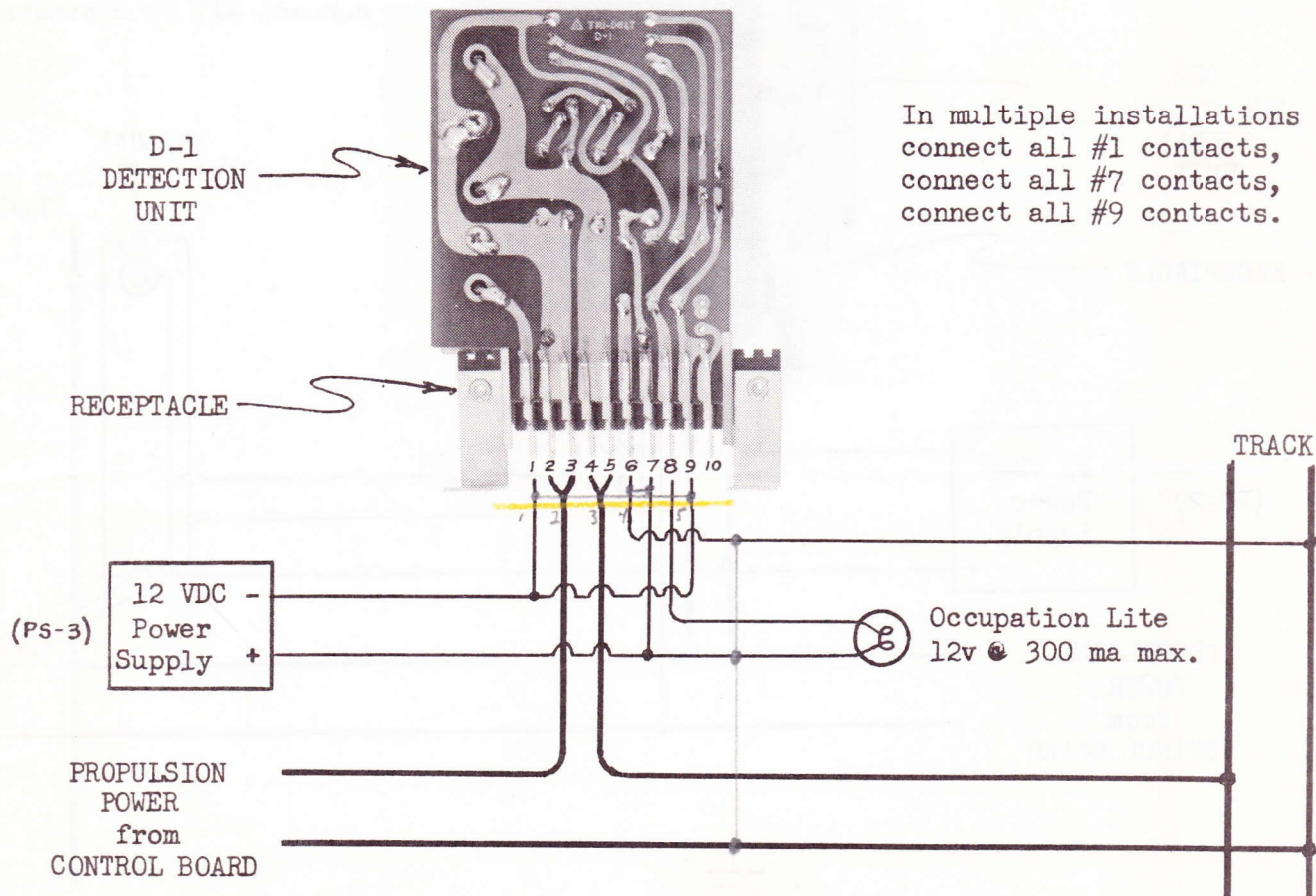
TRI-DELT

SOPHISTICATED ELECTRONICS

Box 20311
Grantville Sta.
San Diego, Calif.
92120

D-1 DETECTION UNIT

TRI-DELT's Detection Unit consists of a plug-in printed circuit board and a ten-contact receptacle. In operation the Detection Unit is placed in series with the track power to each block; two receptacle contacts being used for power-in from the propulsion power supply, and two receptacle contacts for power-out to the track, a ten ampere capacity. When the block is occupied by a locomotive, lighted car, or car with a resistor of 1000 ohms or less, the D-1 will detect. Detection is completely independent of whether the block power is on or off. The Detection Unit has an output of 300 milliamperes at 12 volts, which may be used for Dispatcher's indicator lights, an illuminated system map, a relay, etc. provided that the rating is not exceeded. This output may be easily increased to three amperes with the addition of a power transistor stage. All D-1s may be powered by any independent 12 volt DC power supply. TRI-DELT's PS-3 Power Supply Kit furnishes sufficient power for fifteen Detection Units. It is not necessary to install a full system all at once. Detection Units may be added one block at a time. The Detection Unit is the primary building block for TRI-DELT's Three-color Signalling System.



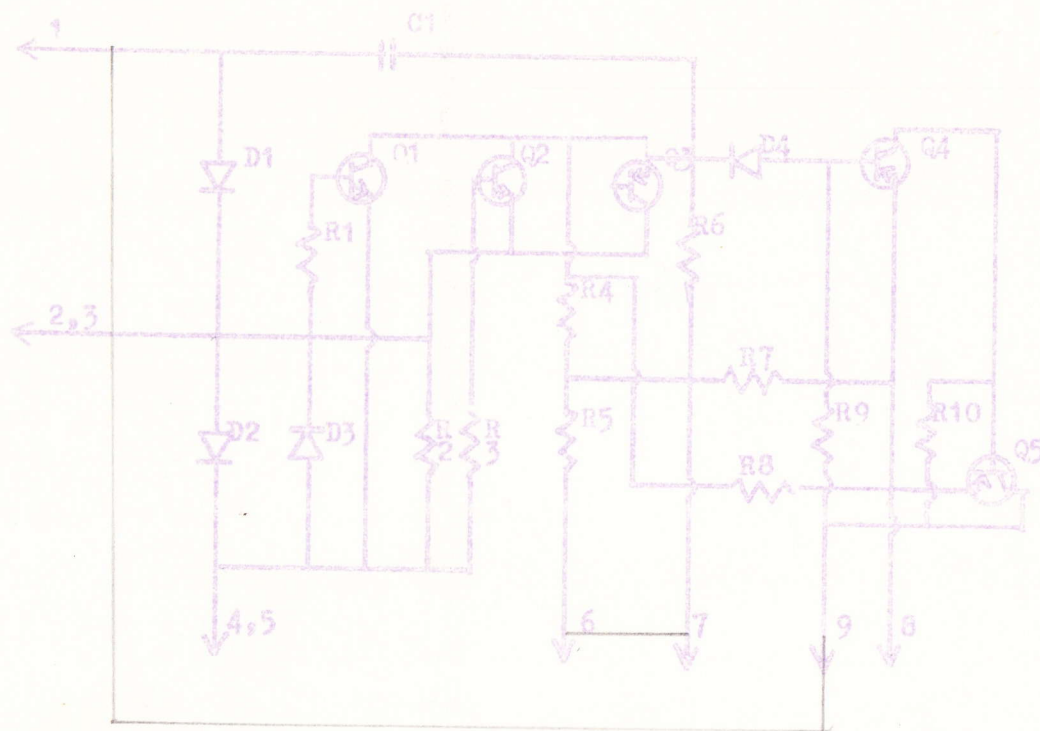
Prices effective November 1, 1967 and subject to change without notice.

D-2 ~~D-1~~ DETECTION UNIT \$ ~~6.95~~ ^{8.00}
PS-3 POWER SUPPLY KIT (sufficient for fifteen D-1s)..... 8.95

All components F.O.B. San Diego, Calif. - excess postage refunded.

GOLDEN GATE POTENTIAL RAILROAD-RR, INC

Tri-Delt Occupation Detector D-1 Circuit board Schematic



C1	.1
D1	1N3492R
D2	1N3491
D3	MR2261R
D4	
Q1	2N1302
Q2	2N1302
Q3	2N3706
Q4	2N3706
Q5	2N3706
R1	10
R2	270
R3	10
R4	27,000
R5	2,200 (1,000)
R6	10,000
R7	560
R8	27,000
R9	270
R10	4,700

Replace R5 with a 2,500 trim pot and adjust to 15ma through #6

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