Twenty-One Pole Relay Unit Specifications

I. Design Standard:

The Twenty-one pole relay unit was designed for use in Nav / GPS or other display / data switching installation applications while also attempting to meet any special requirements established by certification agencies. The Twenty-one pole relay unit contains a group of relays that are energized and de-energized in unison. Available to the installer are twenty-one separate poles (switching contacts), each pole includes a common wiper, a normally closed contact and a normally open contact. Special features of the Twenty-one Pole unit include, 14 or 28 Volt Power Connections, a Low Power Sensing Circuit, an Optional Localizer Override Connection, Circuit Shielding and Relay Energize Contact Confirmation.

II. Environmental Stress:

III. Electrical:

Power:

28 Volt Installation = +20 to +33VDC 200mA energized / 60mA non-energized. 14 Volt Installation = +12 to +18VDC 200mA energized / 60mA non-energized.

Low Power Sensing:

28 Volt Installation = 18.25 ± 0.5 VDC / 18.25 + 1.0, -0.5 at 40°C. 14 Volt Installation = 10.25 ± 0.5 VDC / 10.25 + 1.0, -0.5 at 40°C.

Relay Energize Confirmation Time:

100 milliseconds Minimum to 250 milliseconds Maximum. The relay contacts must be confirmed within this time period to ensure that the relays remain energized.

Relay Contact Rating:

10 micro Ampere Low. 2.0 Ampere Maximum.

IV. Interface:

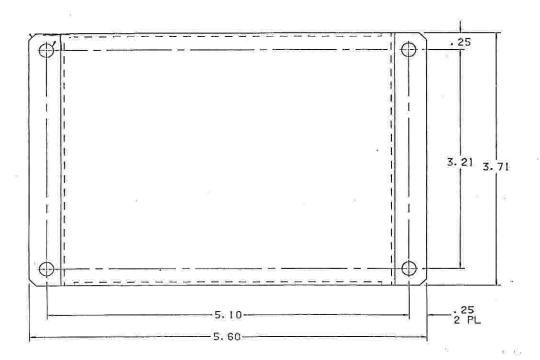
Logic: Ground seeking continuous input for relay energize capable of sinking 200mA. Ground seeking Localizer Energize input capable of sinking 10mA.

V. Physical:

Dimensions: 1.5 in / 5.6 in / 3.8 in h/w/d Mounting: Bulkhead 4 each #10 or #8 Screws.

Connector: 78 pin Male High Density High reliability D-Sub Connector.

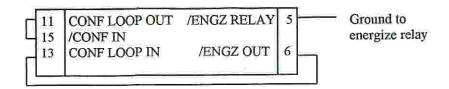
21 Pole Relay PHYSICAL DIMENSIONS



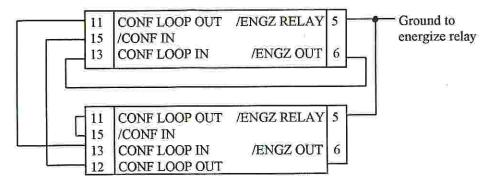
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		3 C	42
		4 C	43
		5 C	44
		6 C	45
		7 C	46
		8 C	47
		9 C	48
		10 C	49
		11 C	50
		12 C	51
		13 C	52
		14 C	53
		15 C	54
		16 C	55
		17 C	56
		18 C	57
		19 C	58
		20 C	59
		21 C	1.7
		LOC GND /ENGZ OUT /ENGZ RLY GND GND 13.75 IN 27.5 IN	7 6 5 4 2 3
	-1		

COMFIRMATION LOOP JUMPER INSTALLATION

SINGLE RELAY INSTALLATION



2 RELAY INSTALLATION



3 OR MORE RELAYS

