



C Commercial	M Military	A Avionics	S Space
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RF Characteristics

Frequency GHz	VSWR (max)	Isolation dB (min)	Ins. Loss dB (max)
0-1	1.15	85	0.15
1-2	1.20	80	0.20
2-4	1.25	70	0.25
4-8	1.45	60	0.40
8-12.4	1.60	60	0.50

Note: RF characteristics for Type N & TNC female connectors, consult Dow-Key for other connector configurations

412 Series Transfer Failsafe, N**Specifications****Operating Voltage:**

(across temperature range)

12 Vdc (11-14 Vdc)

28 Vdc (24-32 Vdc)

Coil Current (max @ nom.Vdc & 20°C):

12 Vdc 320 mA

28 Vdc 185 mA

Switching Time:

20 mS maximum

Operating Temperature:

-25°C to +65°C (Standard)

-55°C to +85°C (Extended "T" Option)

Mechanical Life, Cycles:

1,000,000 minimum

Vibration, Operating:

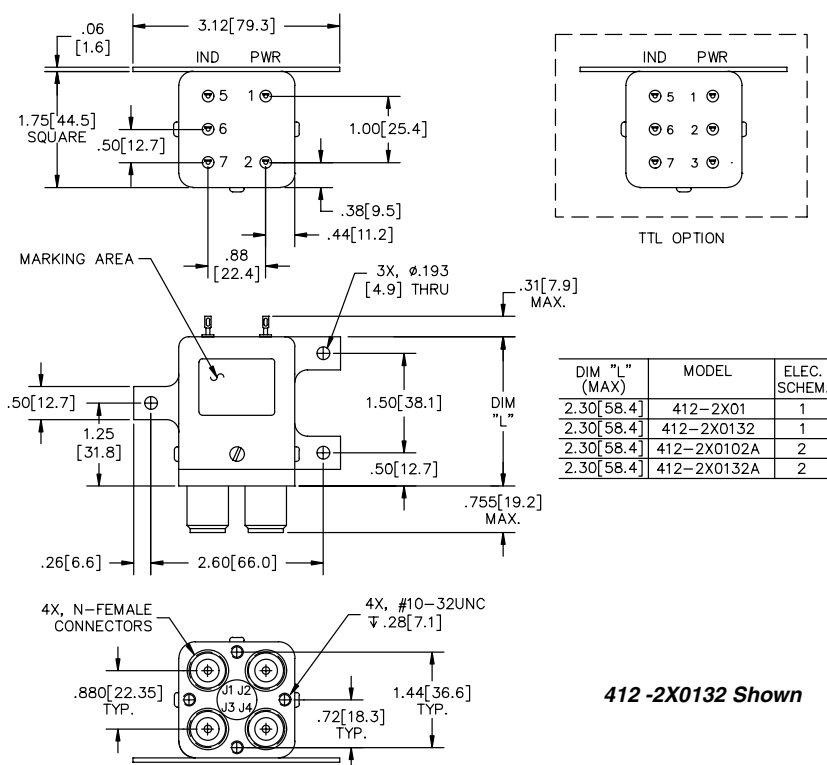
10 G RMS, 20-2000 Hz

Mechanical Shock, Non-Operating:

30 G, 1/2 Sine, 11 mS

Nominal Weight:

14 oz., (397g.)

Mechanical

412-2X0132 Shown

For Electrical Schematic
see page # 2-6

Part Number Selection

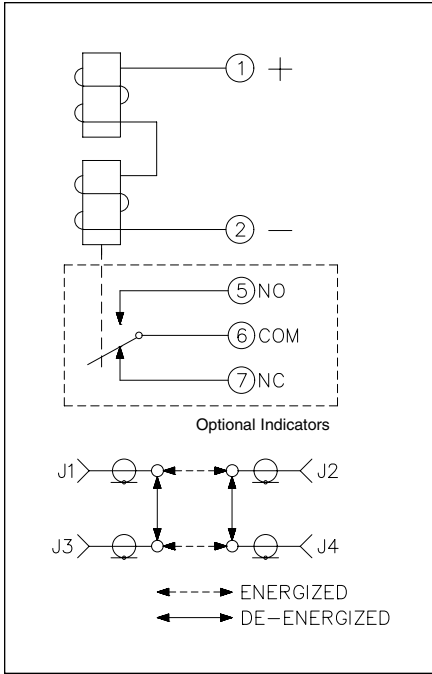
412 J - 2 2 01 02 A

Special Options	Actuator	Coil Voltage	Connectors	Indicators	Circuit Options
A = High Power C = Special Mounting Bracket J = 'D' Connector N = No Mounting Bracket P = Power Plug S = Epoxy Seal T = -55°C to + 85°C	2 = Failsafe 6 = Failsafe with Suppression Diode	2 = 12Vdc 3 = 28Vdc 7 = 20Vdc 8 = 24Vdc 9 = 15Vdc	01 = N Female 02 = BNC Female 03 = TNC Female 53 = SC Female*	02 = No Indicators 32 = Indicators	A = TTL High

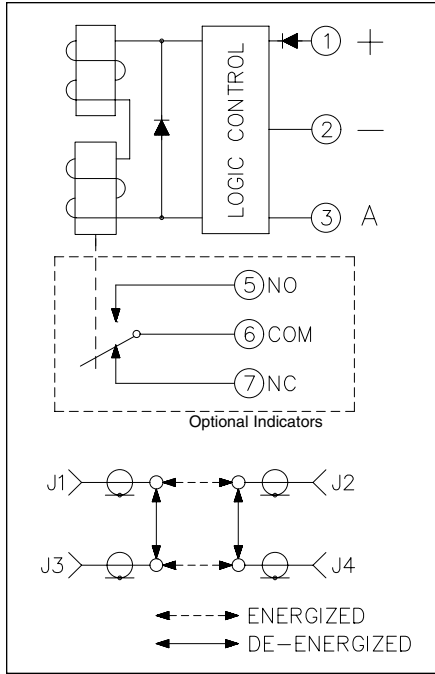
*1" connector spacing
Consult Dow-Key for dimensions



1 411C/412 Failsafe



2 411C/412 Failsafe TTL



LOGIC TRUTH TABLE

FAILSAFE TTL - SCH #2

LOGIC TRUTH TABLE		
RF PATH	INDICATOR PATH	LOGIC INPUT "A"
J1-J3/J2-J4	NC-COM	0
J1-J2/J3-J4	NO-COM	1

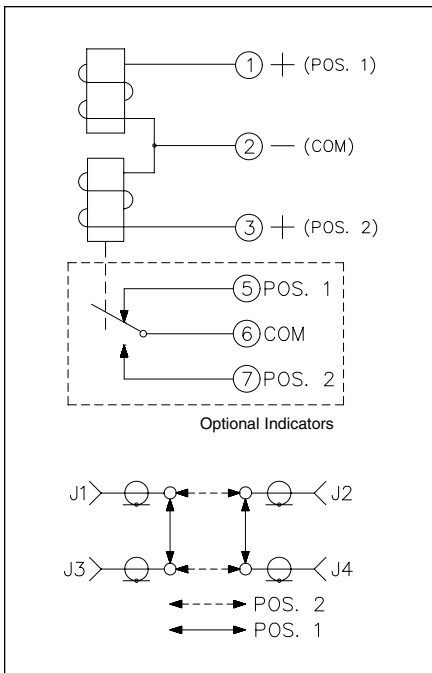
"0" = 0.0V-0.8V
"1" = 2.4V-5.5V

SELF CUTOFF TTL - SCH #5

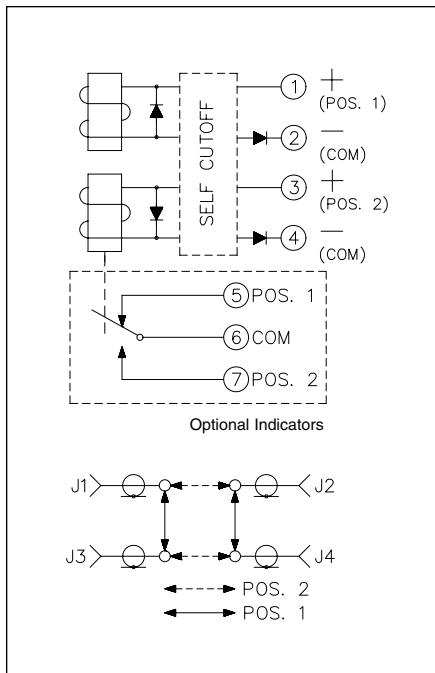
LOGIC TRUTH TABLE			
RF PATH	INDICATOR PATH	LOGIC INPUT "A"	LOGIC INPUT "B"
J1-J3/J2-J4	COM-1	1	0
J1-J2/J3-J4	COM-2	0	1

"0" = 0.0V-0.8V
"1" = 2.4V-5.5V

3 411C/412 Pulse Latch



4 411C/412 Self Cutoff



5 411C/412 Self Cutoff TTL

