P1.2H-DC AHS TECHNICAL BULLETIN, WIRING DIAGRAM

A.H. Stock Manufacturing Corp.
8402 Center Road • Newton, WI 53063-9603
Phone: 920-726-4211 • FAX: 920-726-4214
www.ahstockmfg.com

OPERATION:

When the "Customer Supplied Switch" is held in the direction allowing positive 12VDC to the gray wire and 12VDC ground to the black wire, the actuator will extend until it reaches the end of stroke. At the end of stroke an audible clutch detent sound will be heard as long as power is maintained from "Customer Supplied Switch". The "Extend Output" (white wire) will have +12volts to ground, indicating it is at the end. This +12volt signal can be used to light a Lamp, signal a relay coil, or an **isolated** PLC input that only requires 400mA. This output will be maintained via (live power) as long as the actuator remains at either travel end even if the "Customer Supplied Switch" is not activated. The "Live Power voltage +12VDC is supplied to the red wire of the Deutsch (DT04-4P) 4 pin connector and ground to the green wire. This supply can be the same supply for the actuator. Less than 100mA is needed to keep power to the LED's.

When the switch is held in the opposite direction so the positive lead of the 12VDC signal is on the black wire and the 12VDC ground is on the gray wire the, actuator will retract until it returns to full home position. At the full home position, the "Retract Output" (black wire) will have +12 volts to ground.
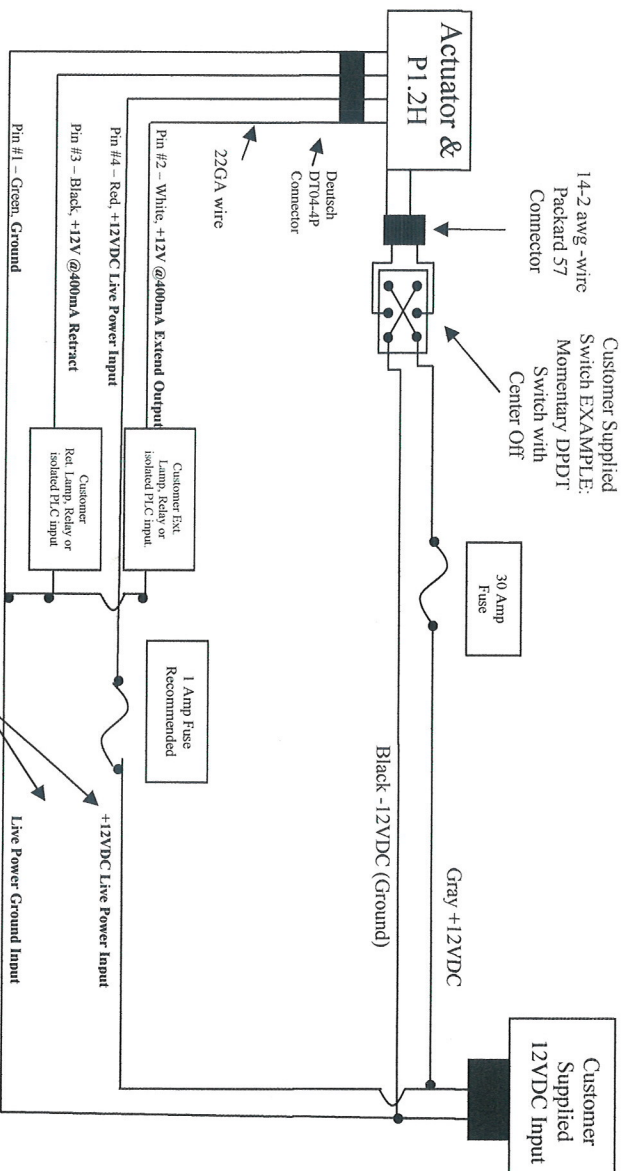
Actuator & P1.2H

Deutsch DT04-4P Connector

22GA wire

Pin #1 – Green, Ground
Pin #3 – Black, +12V @400mA Retract
Pin #4 – Red, +12VDC Live Power Input
Pin #2 – White, +12V @400mA Extend Output

14-2 awg -wire
Packard 57 Connector

Customer Supplied Switch EXAMPLE:
Momentary DPDT Switch with Center Off

Customer Ext. Lamp, Relay or isolated PLC input

Customer Ret. Lamp, Relay or isolated PLC input

1 Amp Fuse Recommended

30 Amp Fuse

Black -12VDC (Ground)

Gray +12VDC

Live Power Ground Input
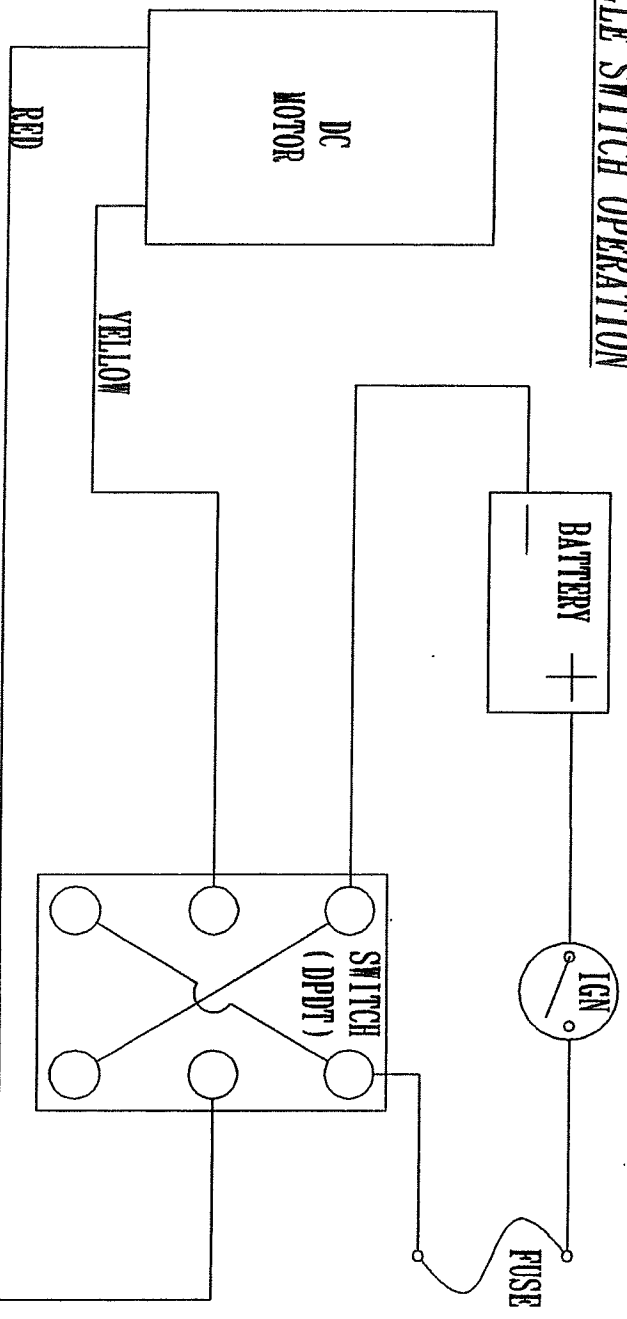
+12VDC Live Power Input

Customer Supplied 12VDC Input

ITEMS INCLUDED:

1 - Warner Electric Actuator with Plug and Lead Wires.
1 - Compatible Double Pole Double Throw Switch.
   (Wire Connectors are Included.)

NOTE: Customer must Supply #10 or Heavier Wire with 35 or 40 Amp. Fuse.
   APPROXIMATE DRAW OF ELECTRIC ACTUATOR:
   10-12 Amps Initial Opening to Ratchet Clutch & Close
   Up to 32 Amps to Open or Close Motor under Heavy Load.

SINGLE SWITCH OPERATION

DC
MOTOR

RED

YELLOW

BATTERY
−
+

SWITCH
(DPDT)

IGN

FUSE

DOUBLE SWITCH OPERATION

DC
MOTOR

RED

YELLOW

BATTERY
−
+

SWITCH
(DPDT)
(1)

SWITCH
(DPDT)
(2)

IGN

FUSE