

ACTUATOR
WIRING DIAGRAMS
TECHNICAL INFORMATION



WIRING DIAGRAM DIRECTORY

WARNING:
Wiring direct to battery not recommended. Install actuator after ignition switch, or master power switch.

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* stands for potential variables in part number

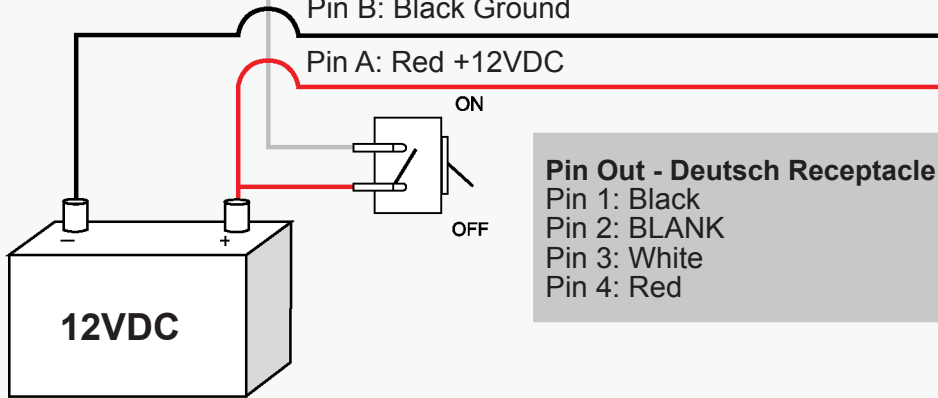
COMPACT ACTUATOR MODEL 'EH3'

1 STANDARD 12VDC ON/OFF, 3-WIRE/3-PIN WeatherPak Tower, SPST (60A)

Pin C: White +12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Black Ground

Pin A: Red +12VDC



Pin Out - Deutsch Receptacle
Pin 1: Black
Pin 2: BLANK
Pin 3: White
Pin 4: Red

Similar Actuator Part Numbers

000-60A-M
000-60A-N
000-60A-O
10D20-D01
10D20-P01
10D20-PB1
10DN0-P01
10DP0-P01

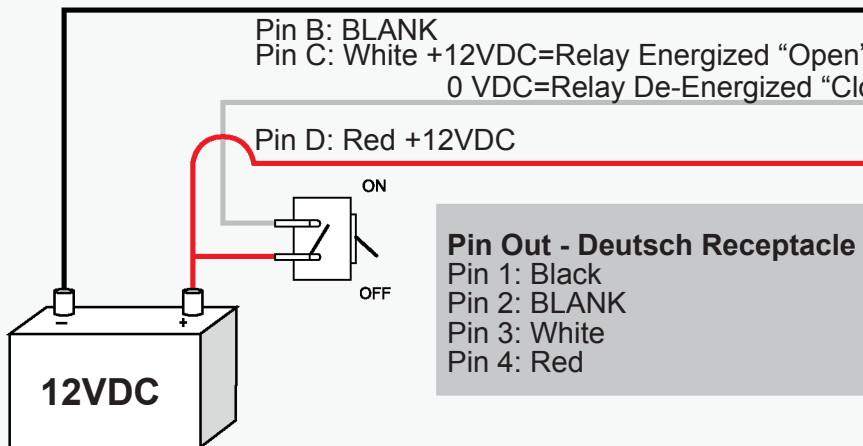
2 12VDC ON/OFF 3-WIRE/4-PIN WeatherPak Tower (60B)

Pin A: Black Ground

Pin B: BLANK

Pin C: White +12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin D: Red +12VDC



Pin Out - Deutsch Receptacle
Pin 1: Black
Pin 2: BLANK
Pin 3: White
Pin 4: Red

Similar Actuator Part Numbers

000-60B-M
000-60B-N
10D20-B01

3 12VDC ON/OFF, 4-WIRE/4-PIN WeatherPak Tower

Switched (+) or (-) depending on control system

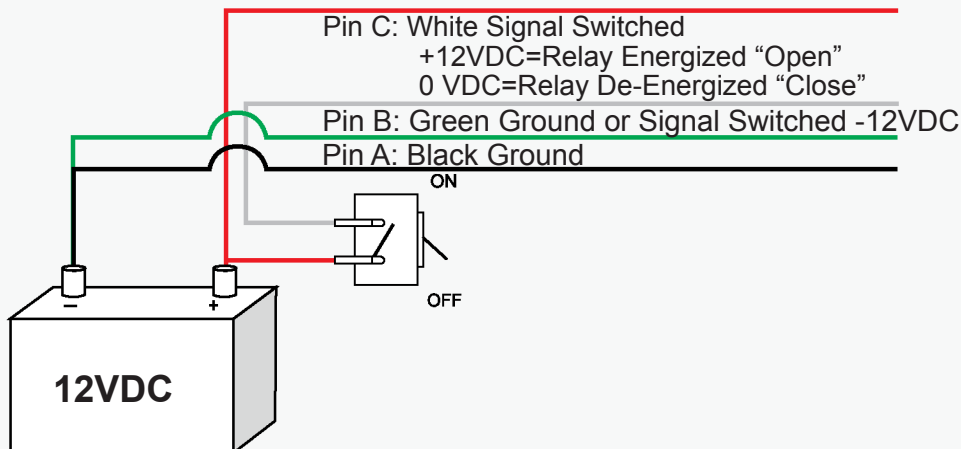
(55)

Pin D: Red +12VDC

Pin C: White Signal Switched
+12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Green Ground or Signal Switched -12VDC

Pin A: Black Ground

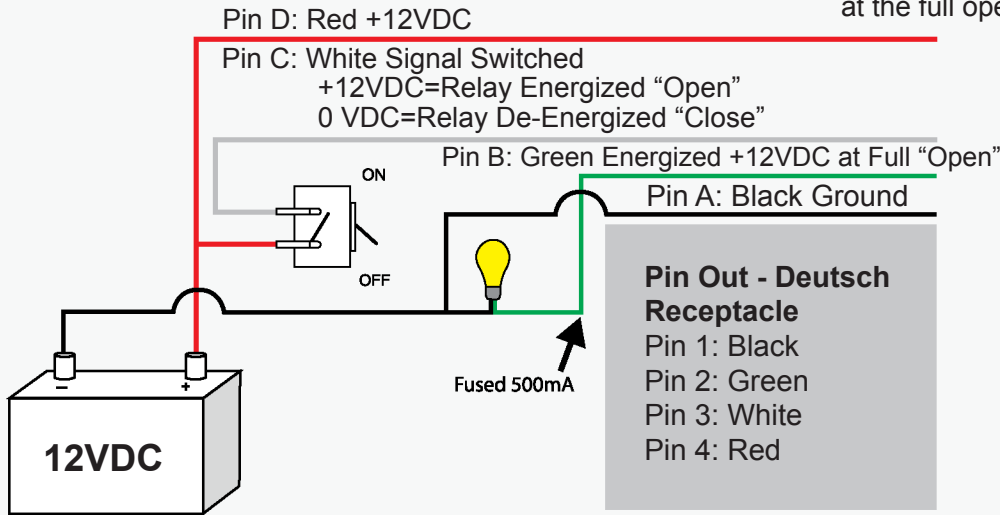


Similar Actuator Part Numbers

000-55-M
000-5-P

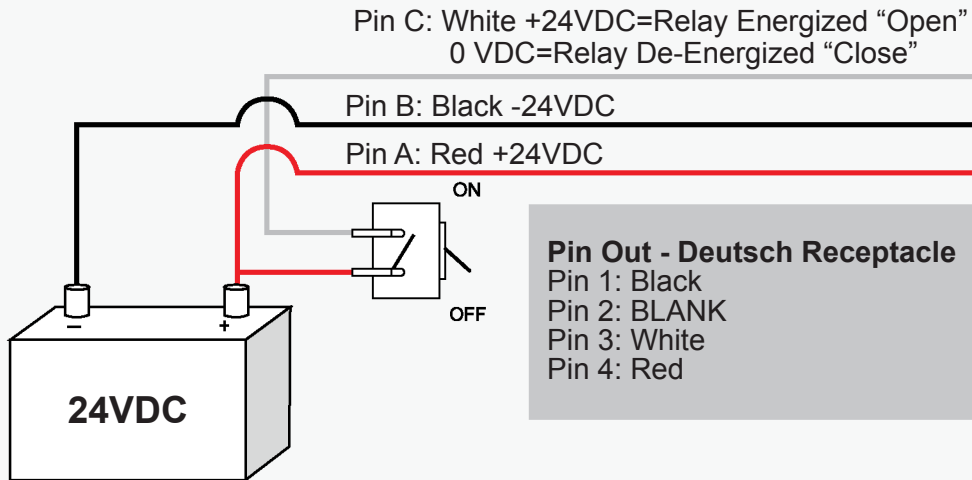
COMPACT ACTUATOR MODEL 'EH3'

- 4 **12VDC ON/OFF, 4-WIRE/4-PIN WeatherPak Tower** Feedback to operate light or similar device (60)
at the full open condition of actuator



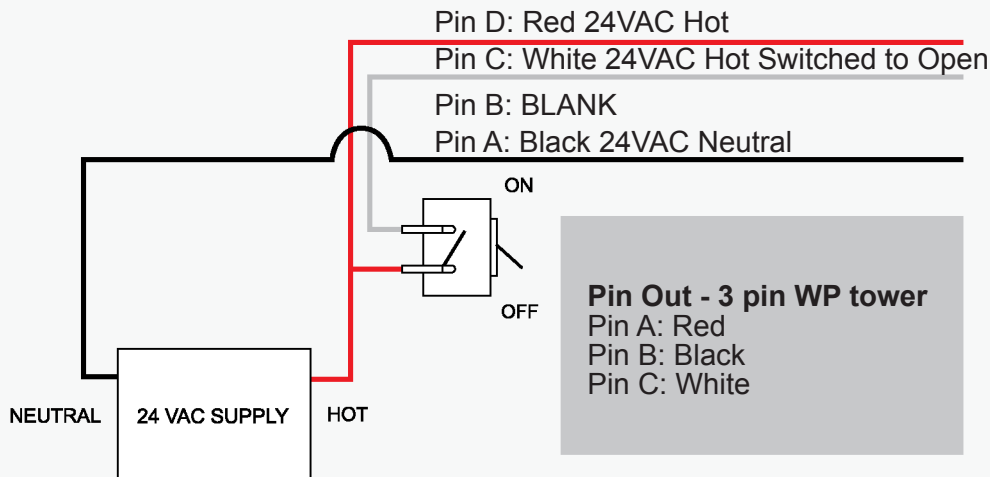
Similar Actuator Part Numbers
000-60-M
000-60-N
1AD20-D01
1ADQ0-P01

- 5 **24VDC ON/OFF, 3-WIRE/3-PIN WeatherPak Tower, SPST** (60AD)



Similar Actuator Part Numbers
000-60AD-M
000-60AD-O
10E2S-P01
10E2S-P41

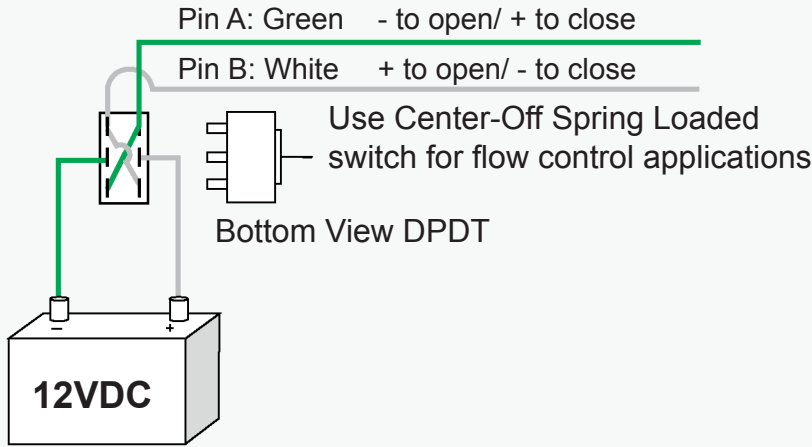
- 6 **24VAC ON/OFF, 3-WIRE/4-PIN WeatherPak Tower** (66)



Similar Actuator Part Numbers
000-66-M
000-66-O
000-66-Q
10ANS-B01
10ANS-P01

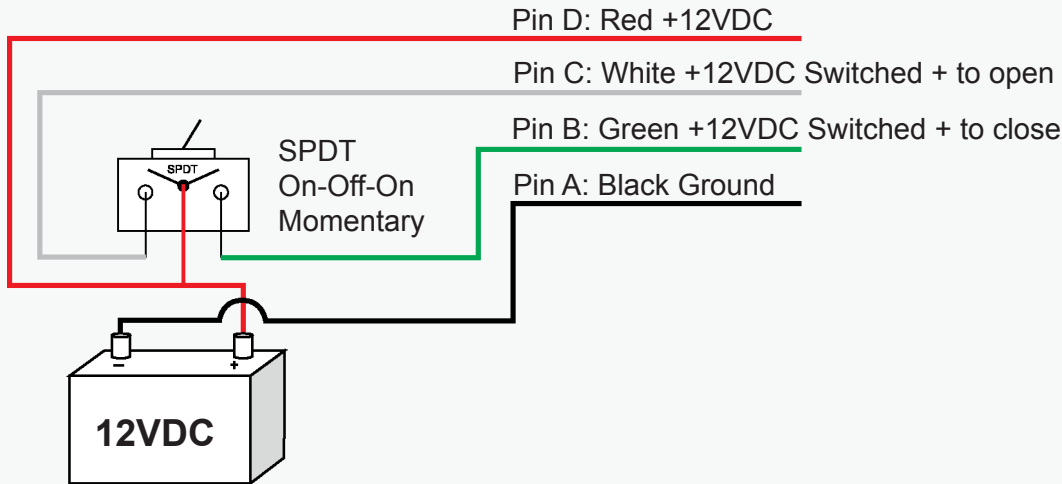
COMPACT ACTUATOR MODEL 'EH3'

7 12VDC REGULATING, 2-WIRE/2-PIN WeatherPak Shroud, DPDT (50K)



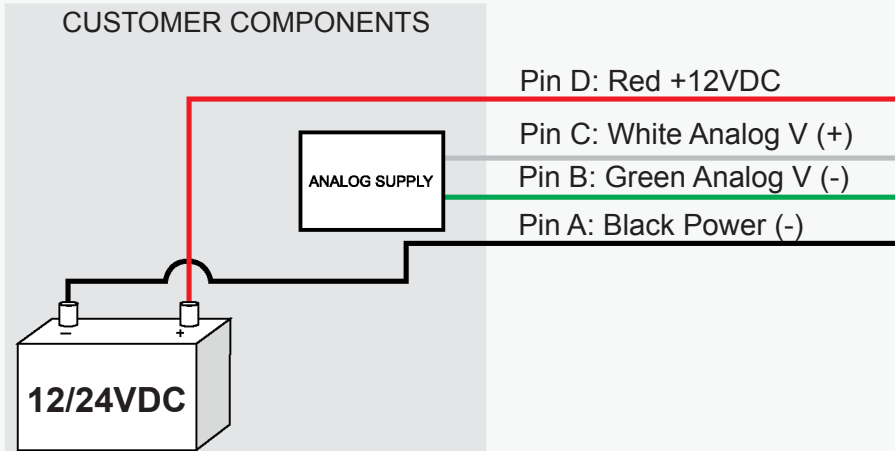
Similar Actuator Part Numbers
 000-50K-M
 000-50K-Q
 KODN0-P41
 KOENS-P31
 K0EPS-P01

8 STANDARD 12VDC REGULATING 4-WIRE/4-PIN WeatherPak Tower, SPDT (62)



Similar Actuator Part Numbers
 000-62-P
 20DQ0-C01

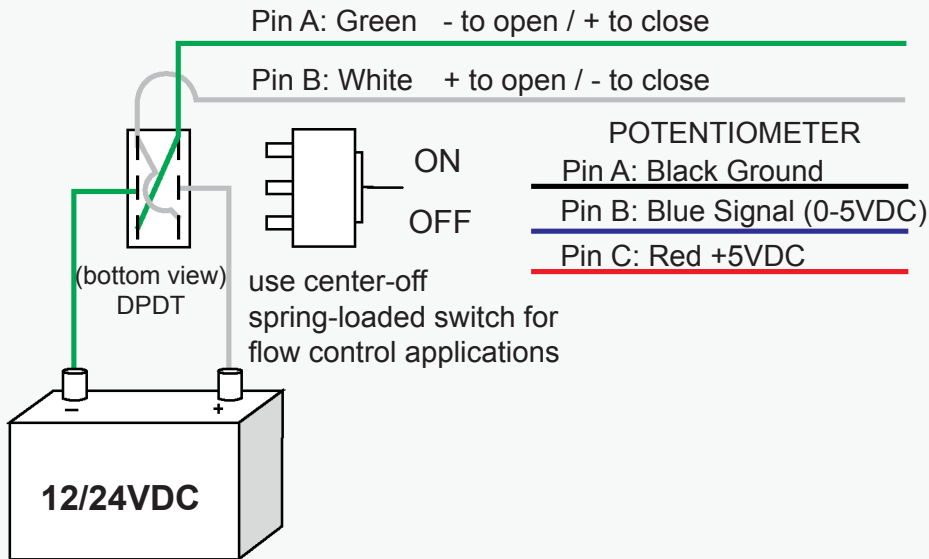
9 ANALOG WIRING 0-5V / 0-10V INPUT 12/24VDC



Similar Actuator Part Numbers
 B0EPS-D01
 C0ENS-D01

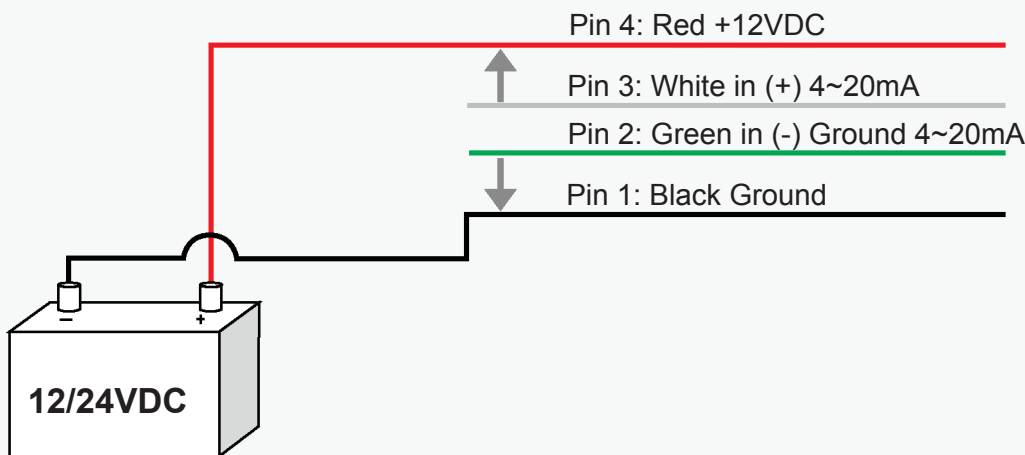
COMPACT ACTUATOR MODEL 'EH3'

- 10 12VDC REGULATING, POSITION CONTROL, (5-WIRE) 2-PIN/3-PIN WeatherPak Shrouds (41)
POTENTIOMETER: 5K Ω , 1% TOLERANCE
MAX POWER: 0.4 WATT
WIPER CURRENT: MAX $1\mu\text{A}$



Similar Actuator Part Numbers
000-41-P

- 11 4 ~ 20mA POSITIONING CONTROL 12/24VDC, 4-WIRE/4-PIN DEUTSCH



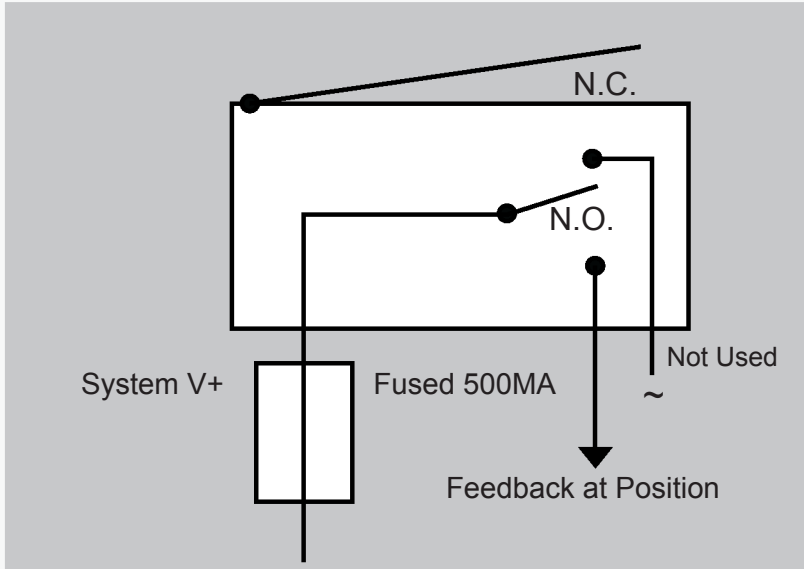
Similar Actuator Part Numbers
A0EPS-P01
A0E5S-DB1

COMPACT ACTUATOR MODEL 'EH3'

12 F OPTION (Feedback Option 2) 2 WET LIMIT SWITCHES FOR FEEDBACK AT OPEN AND CLOSE FUSED: 500mA

Similar Actuator Part Numbers
12D20-D01

EXAMPLE LIMIT SWITCH INSIDE ACTUATOR



Feedback Voltage = System Voltage

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Red Power (+)
- Pin 3: White Switch to Open (+)
- Pin 4: Green (+) FB at Closed
- Pin 5: Blue (+) FB at Open
- Pin 6: BLANK

Similar Actuator Part Numbers
12E2S-D01

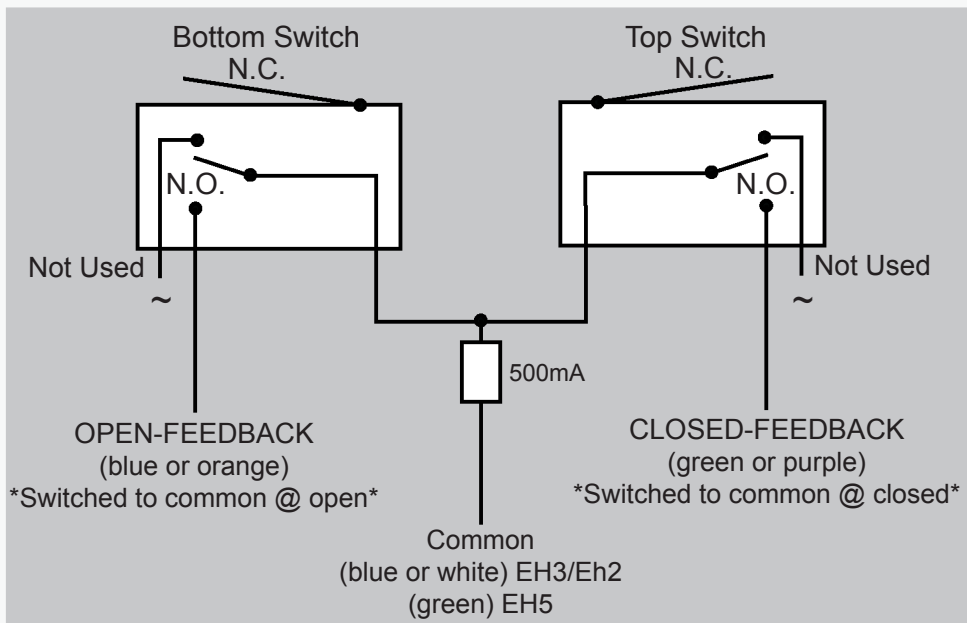
Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green Switch to Close (+)
- Pin 3: White Switch to Open (-)
- Pin 4: Red (+) Constant Power In
- Pin 5: Orange (+) FB at Open
- Pin 6: Purple (+) FB at Closed

13 E OPTION (Feedback Option 3) 2 DRY LIMIT SWITCHES FOR FEEDBACK AT OPEN AND CLOSE FUSED: 500mA

Similar Actuator Part Numbers
13E2S-D01

AUXILIARY SWITCHES INSIDE ACTUATOR

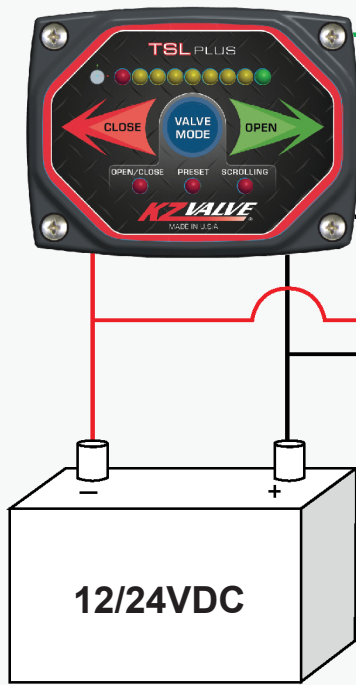


Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green FB Common
- Pin 3: White Switch (+) to Open
- Pin 4: Red Constant Power in (+)
- Pin 5: Orange FB at Open
- Pin 6: Purple FB at Closed

COMPACT ACTUATOR MODEL 'EH3'

14 TSL/SL 12/24VDC REGULATING POSITION W/ FEEDBACK, DEUTSCH DT6R X DT4P



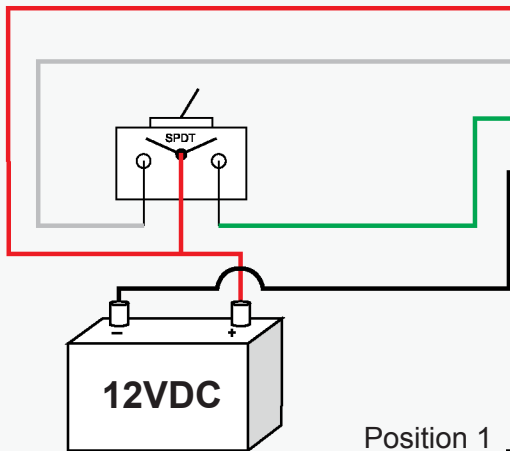
- Pin 2: Green 12/24VDC Switched + to close
- Pin 1: White 12/24VDC Switched + to open
- Pin 4: Red +5VDC
- Pin 3: Blue Signal (+0.25-2.0VDC)
- Pin 5: Black -5VDC

- Pin 1: Red +12/24VDC
- Pin 2: Black -12/24VDC

TO ACTUATOR

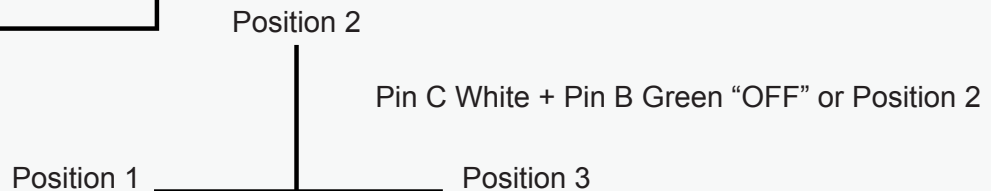
Similar Actuator Part Numbers
25D50-DB3
25E5S-DB3

15 STANDARD 12VDC REGULATING 4-WIRE/4-PIN WeatherPak Tower, SPDT, 3 POSITION



- Pin D: Red +12VDC
- Pin C: White +12VDC Switched + to open Position 1
- Pin B: Green +12VDC Switched + to open Position 3
- Pin A: Black Ground

Similar Actuator Part Numbers
30D20-P0V



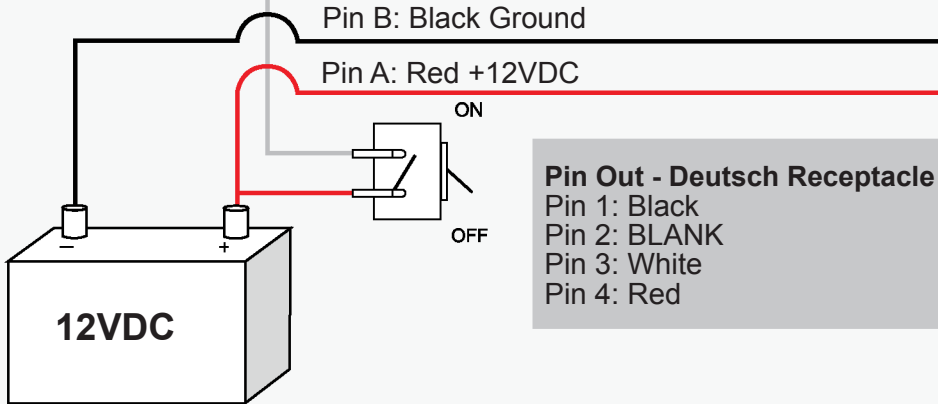
MID-SIZE ACTUATOR MODEL 'EH2'

1 STANDARD 12VDC ON/OFF, 3-WIRE/3-PIN WeatherPak Tower, SPST (60A)

Pin C: White +12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Black Ground

Pin A: Red +12VDC



Pin Out - Deutsch Receptacle
Pin 1: Black
Pin 2: BLANK
Pin 3: White
Pin 4: Red

Similar Actuator Part Numbers

- 000-60A-Y
- 000-60A-Z
- 10DW0-P3U
- 10DW0-PFU
- 10DY0-DB1
- 10DY0-PF1

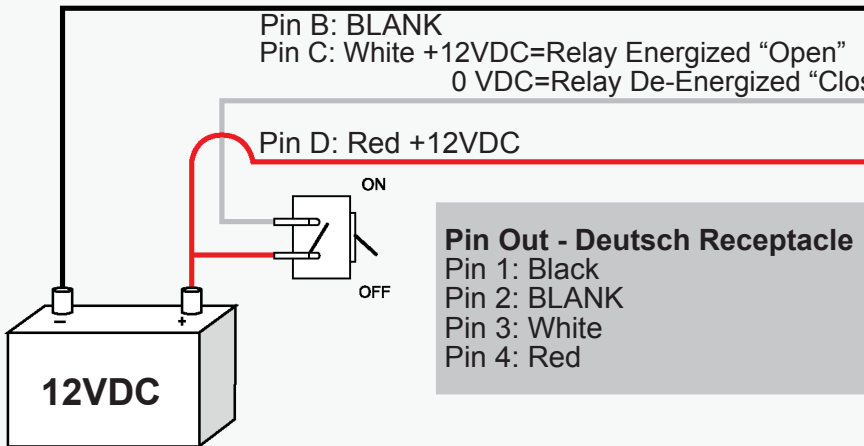
2 12VDC ON/OFF 3-WIRE/4-PIN WeatherPak Tower (60B)

Pin A: Black Ground

Pin B: BLANK

Pin C: White +12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin D: Red +12VDC



Pin Out - Deutsch Receptacle
Pin 1: Black
Pin 2: BLANK
Pin 3: White
Pin 4: Red

Similar Actuator Part Numbers

- 000-60B-Y
- 000-60B-Z
- 10DY0-BF1

3 12VDC ON/OFF, 4-WIRE/4-PIN WeatherPak Tower (55)

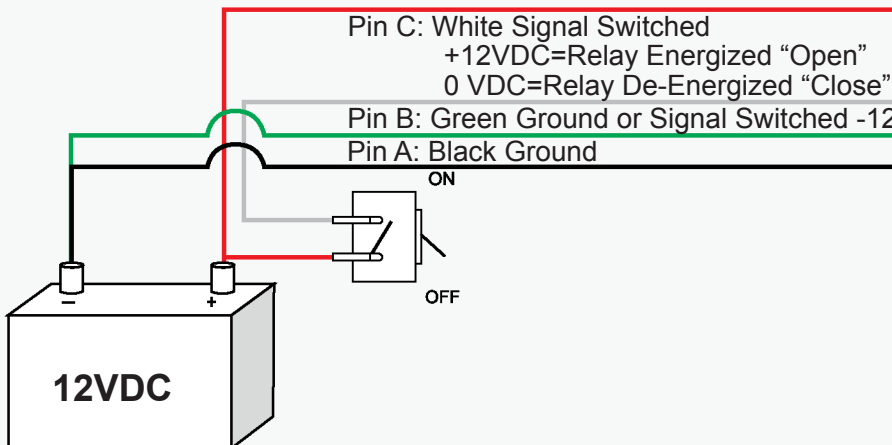
Switched (+) or (-) depending on control system

Pin D: Red +12VDC

Pin C: White Signal Switched
+12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Green Ground or Signal Switched -12VDC

Pin A: Black Ground

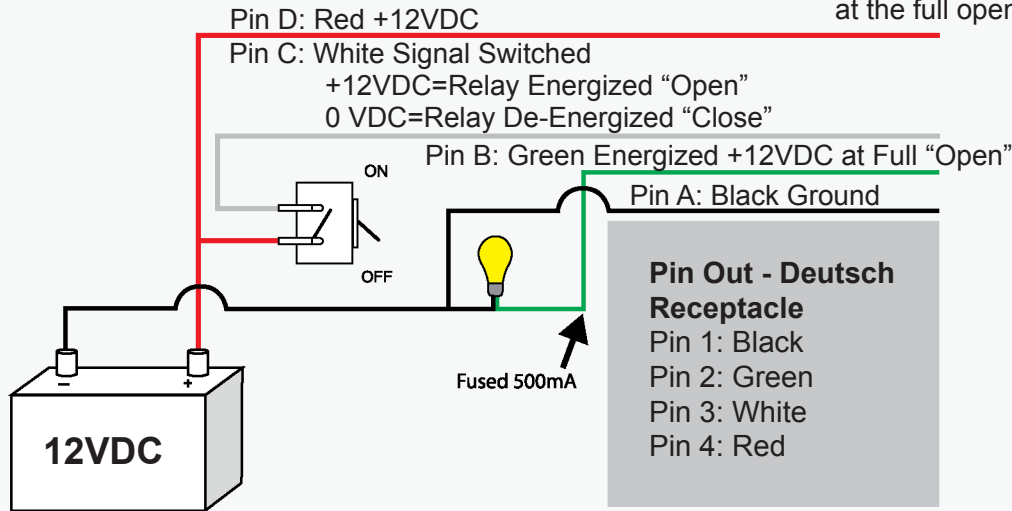


Similar Actuator Part Numbers

- 000-55-Y
- 000-55-Z

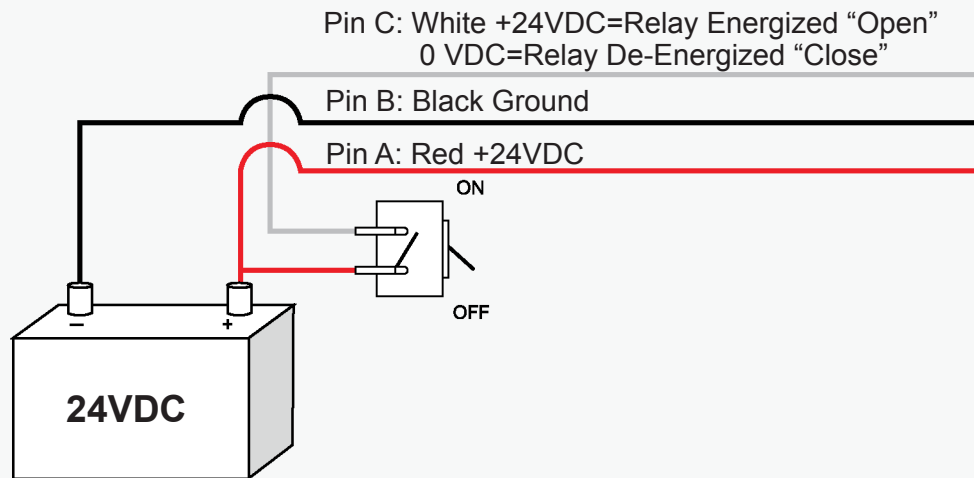
MID-SIZE ACTUATOR MODEL 'EH2'

- 4 **12VDC ON/OFF, 4-WIRE/4-PIN WeatherPak Tower** Feedback to operate light or similar device (60)
at the full open condition of actuator



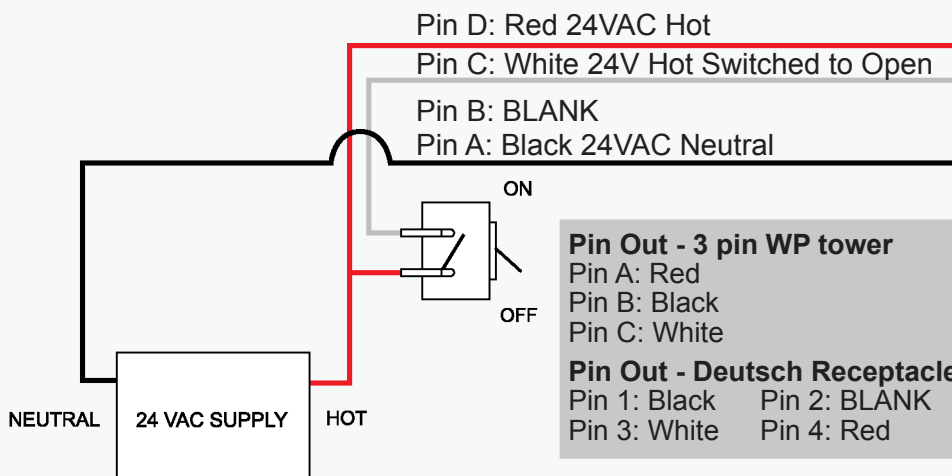
Similar Actuator Part Numbers
000-60-Y
000-60-Z
1ADW0-DF1
1ADY0-PF1

- 5 **24VDC ON/OFF, 3-WIRE/3-PIN WeatherPak Tower, SPST** (60AD)



Similar Actuator Part Numbers
000-60AD-V
000-60AD-W
10EUS-PF1
10EV0-PF1
10EYS-DX1
10EYS-PF1

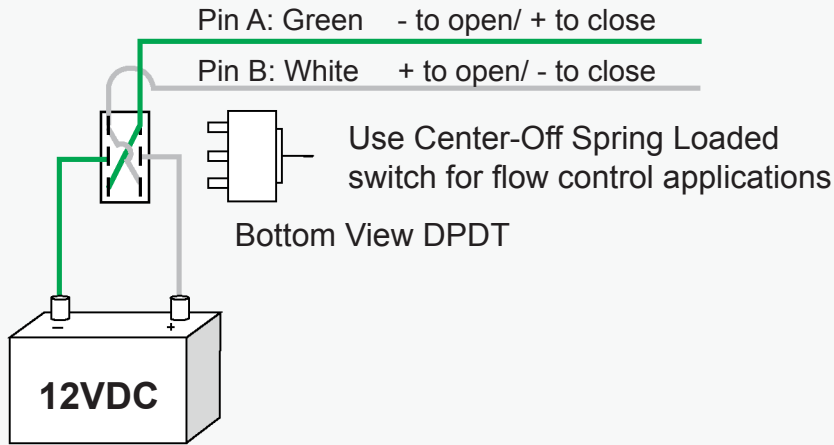
- 6 **24VAC ON/OFF, 3-WIRE/4-PIN WeatherPak Tower** (66)



Similar Actuator Part Numbers
000-66-V
000-66-W
10AU0-D01
10AU0-P01
10AV0-P01
10AW0-DF1
10AWS-BF1
10AWS-PF1

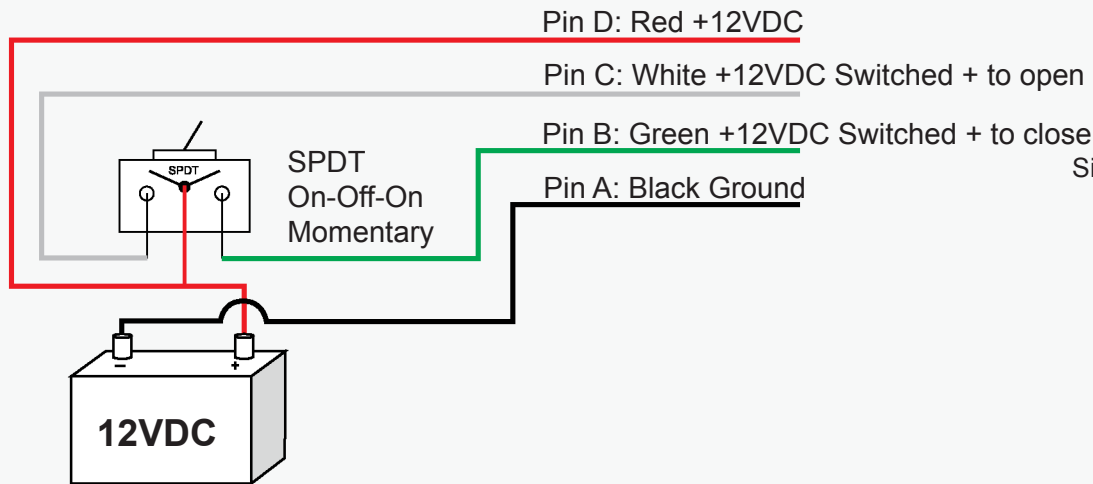
MID-SIZE ACTUATOR MODEL 'EH2'

7 12VDC REGULATING, 2-WIRE/2-PIN WeatherPak Shroud, DPDT (50K)



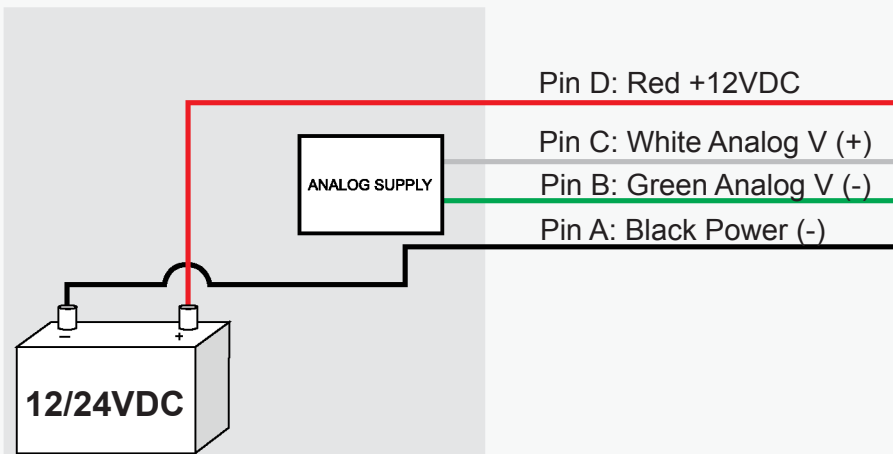
Similar Actuator Part Numbers
 000-50K-U
 000-50K-V
 000-50K-W
 K0HU0-PF1
 K0HY0-PF1

8 STANDARD 12VDC REGULATING 4-WIRE/4-PIN WeatherPak Tower, SPDT (62)



Similar Actuator Part Numbers
 000-62-U
 000-62-Y
 20DW0-PB1
 20DY0-PF1

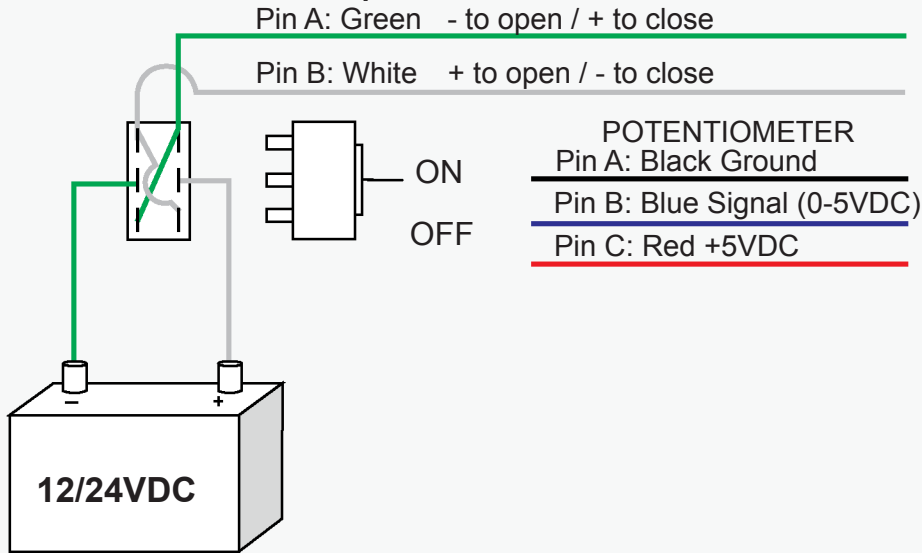
9 ANALOG WIRING 0-5V / 0-10V INPUT 12/24VDC



Similar Actuator Part Numbers
 C0AWS-DF1
 C0EWS-DF1

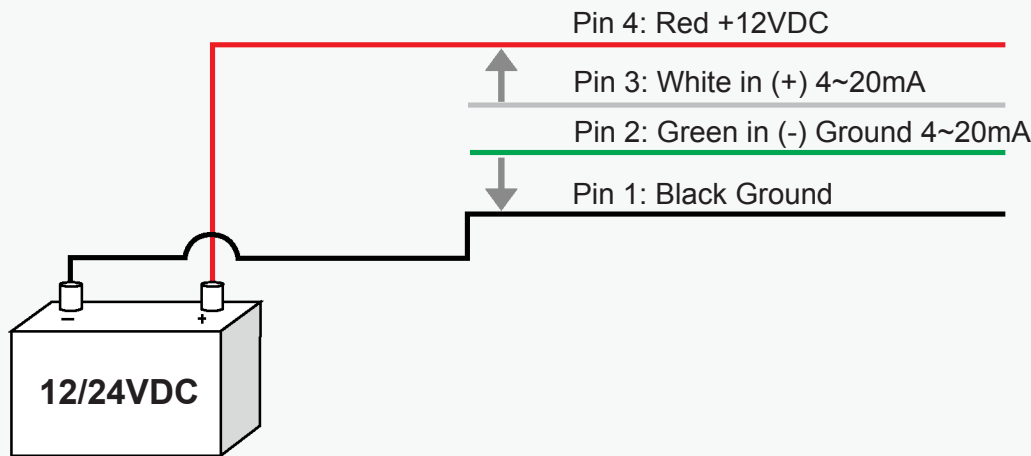
MID-SIZE ACTUATOR MODEL 'EH2'

- 10 **12VDC REGULATING, POSITION CONTROL, (5-WIRE) 2-PIN/3-PIN WeatherPak Shrouds (41)**
POTENTIOMETER: 5K Ω, 1% TOLERANCE
MAX POWER: 0.4 WATT
WIPER CURRENT: MAX $1\mu\text{A}$



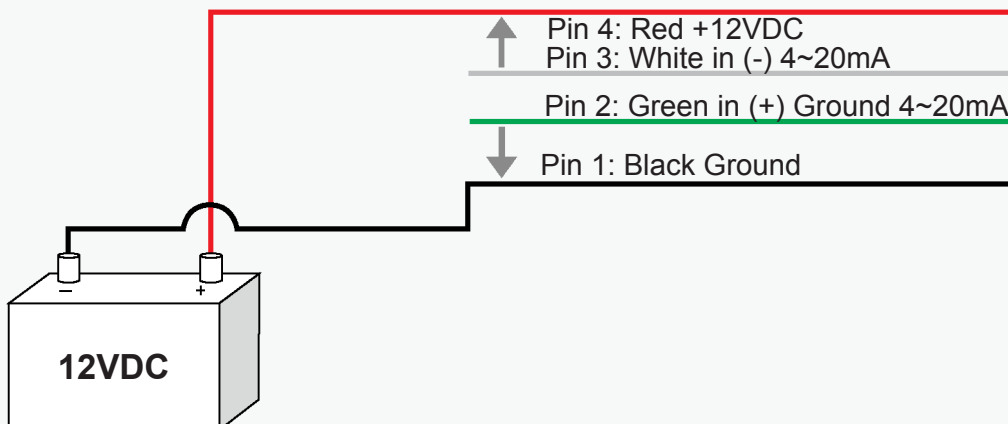
Similar Actuator Part Numbers
 K4HV0-P01
 K4HW0-PF1

- 11 **4 ~ 20mA POSITIONING CONTROL 12/24VDC, 4-WIRE/4-PIN DEUTSCH**



Similar Actuator Part Numbers
 A0EWS-DF1
 A0EWS-P01

- 11a **4 ~ 20mA INPUT, 12VDC 4-WIRE/4-PIN WeatherPak Tower (42)**
 >SERVICE PART ONLY - Order Control Type "A" (4~20mA wiring)<

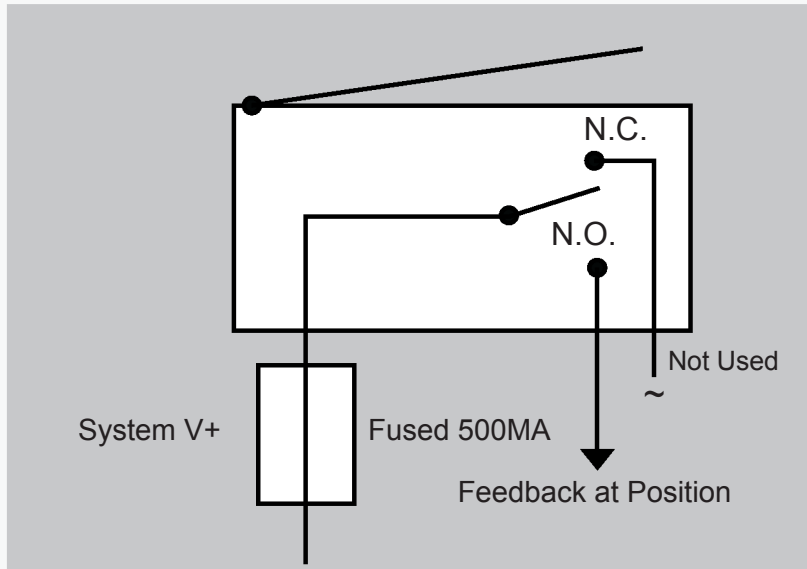


Similar Actuator Part Numbers
 000-42-W

MID-SIZE ACTUATOR MODEL 'EH2'

12 F OPTION (Feedback Option 2) 2 WET LIMIT SWITCHES FOR FEEDBACK AT OPEN AND CLOSE FUSED: 500mA

EXAMPLE LIMIT SWITCH INSIDE ACTUATOR



Feedback Voltage = System Voltage

Similar Actuator Part Numbers
12AWS-D01
12EWS-DF1

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Red Power (+)
- Pin 3: White Switch to Open (+)
- Pin 4: Green (+) FB at Closed
- Pin 5: Blue (+) FB at Open
- Pin 6: BLANK

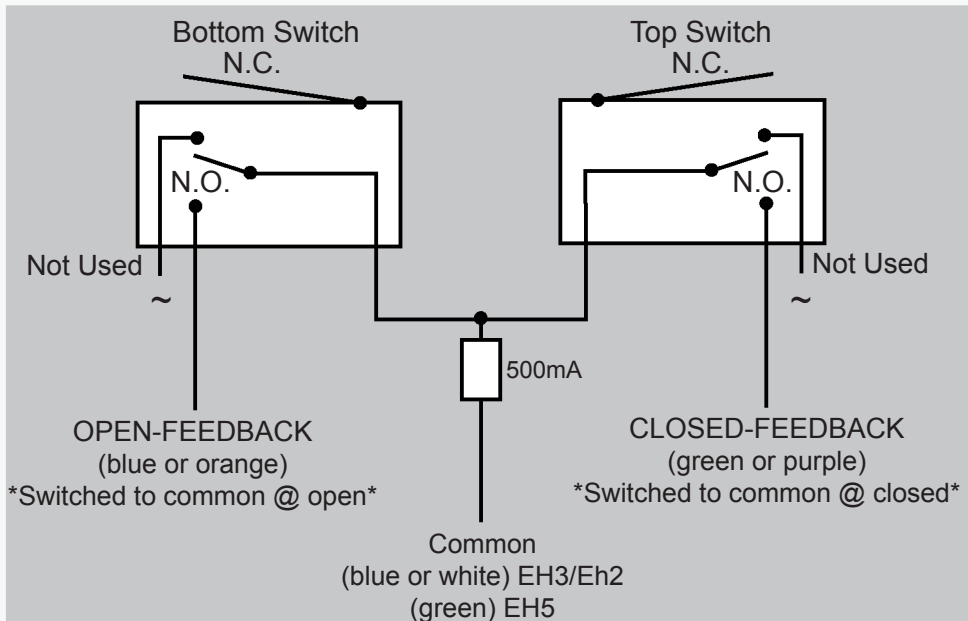
Similar Actuator Part Numbers
22DW0-DF1
22EWS-D01

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green Switch to Close (+)
- Pin 3: White Switch to Open (+)
- Pin 4: Red (+) Constant Power In
- Pin 5: Orange (+) FB at Open
- Pin 6: Purple (+) FB at Closed

13 E OPTION (Feedback Option 3) 2 DRY LIMIT SWITCHES FOR FEEDBACK AT OPEN AND CLOSE FUSED: 500mA

AUXILIARY SWITCHES INSIDE ACTUATOR



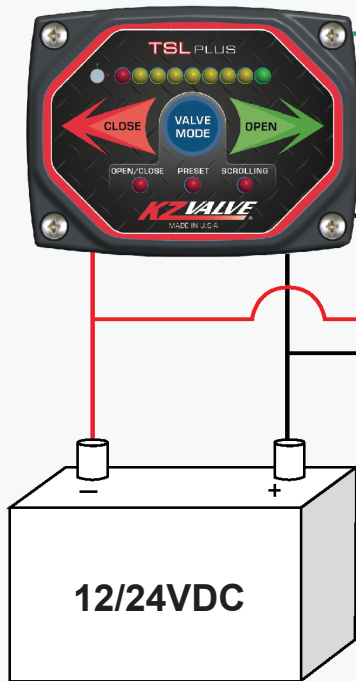
Similar Actuator Part Numbers
13AW0-DF1
13DV0-D01
13EW0-DB1

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green FB Common
- Pin 3: White Switch (+) to Open
- Pin 4: Red Constant Power in (+)
- Pin 5: Orange FB at Open
- Pin 6: Purple FB at Closed

MID-SIZE ACTUATOR MODEL 'EH2'

14 TSL/SL 12/24VDC REGULATING POSITION W/ FEEDBACK, DEUTSCH DT6R X DT4P



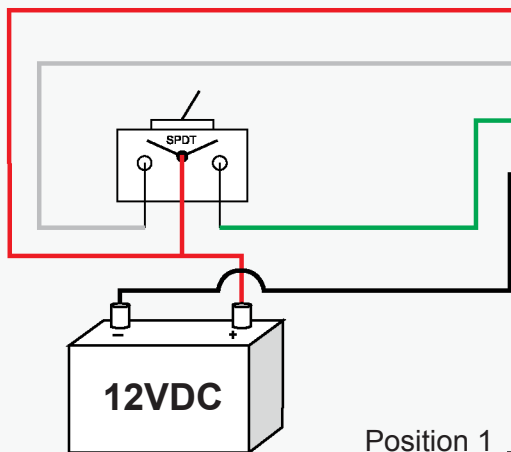
- Pin 2: Green 12/24VDC Switched + to close
- Pin 1: White 12/24VDC Switched + to open
- Pin 4: Red +5VDC
- Pin 3: Blue Signal (+0.25-2.0VDC)
- Pin 5: Black -5VDC

- Pin 1: Red +12/24VDC
- Pin 2: Black -12/24VDC

TO ACTUATOR

Similar Actuator Part Numbers
25DW0-DF1
25EWS-DX3

15 STANDARD 12VDC REGULATING 4-WIRE/4-PIN WeatherPak Tower, SPDT, 3 POSITION



- Pin D: Red +12VDC
- Pin C: White +12VDC Switched + to open Position 1
- Pin B: Green +12VDC Switched + to open Position 3
- Pin A: Black Ground

Similar Actuator Part Numbers
30DW0-MB1
90EW0-PFV

Position 2
Pin C White + Pin B Green "OFF" or Position 2
Position 1 Position 3

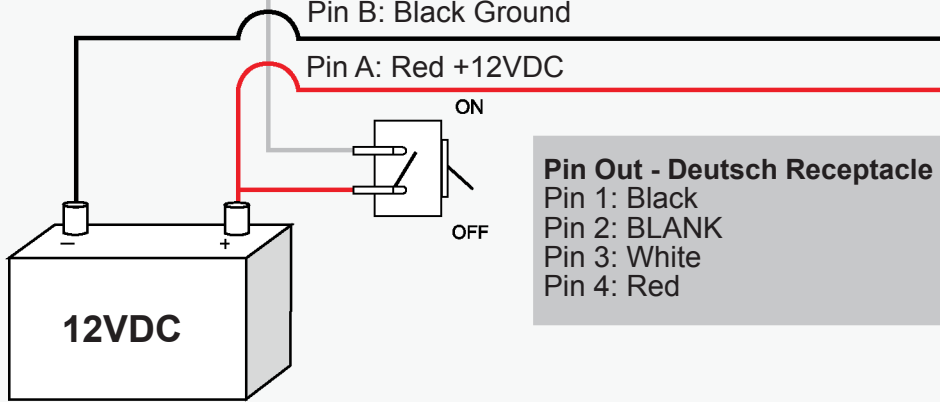
HEAVY DUTY ACTUATOR MODEL 'EH5'

1 STANDARD 12VDC ON/OFF, 3-WIRE/3-PIN WeatherPak Tower, SPST (60A)

Pin C: White +12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Black Ground

Pin A: Red +12VDC



Pin Out - Deutsch Receptacle
Pin 1: Black
Pin 2: BLANK
Pin 3: White
Pin 4: Red

Similar Actuator Part Numbers
10D50-DB1
10D50-PB1

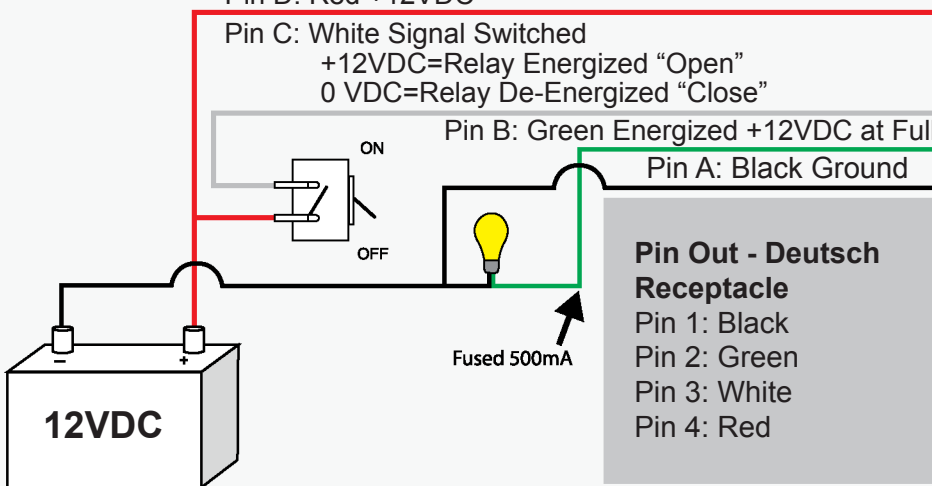
4 12VDC ON/OFF, 4-WIRE/4-PIN WeatherPak Tower Feedback to operate light or similar device (60) at the full open condition of actuator

Pin D: Red +12VDC

Pin C: White Signal Switched
+12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Green Energized +12VDC at Full "Open"

Pin A: Black Ground



Pin Out - Deutsch Receptacle
Pin 1: Black
Pin 2: Green
Pin 3: White
Pin 4: Red

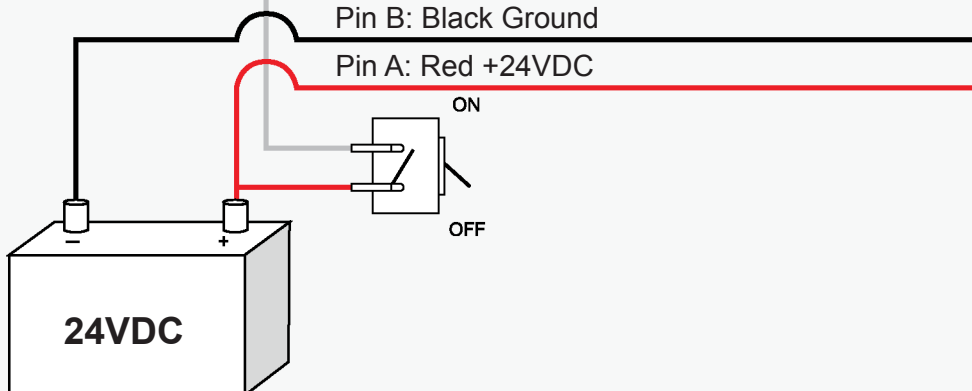
Similar Actuator Part Numbers
1AD50-DB1

5 24VDC ON/OFF, 3-WIRE/3-PIN WeatherPak Tower, SPST (60AD)

Pin C: White +24VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Black Ground

Pin A: Red +24VDC

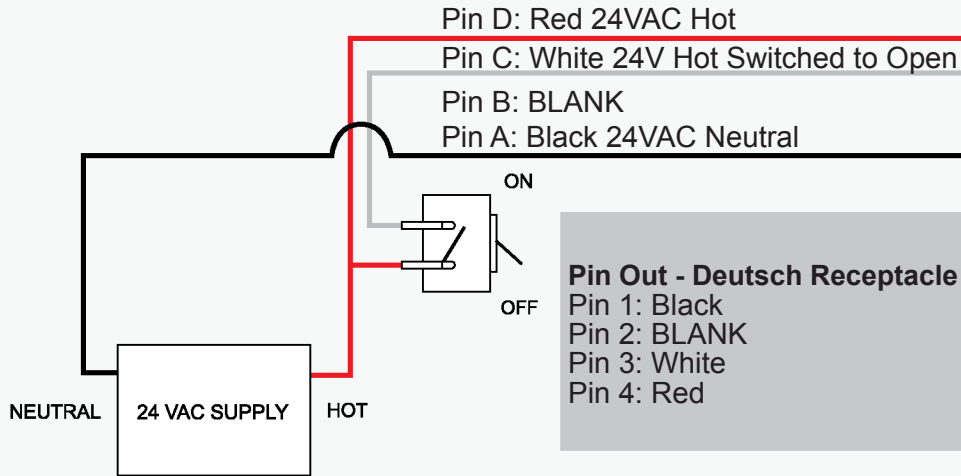


Similar Actuator Part Numbers
10E5S-PB1

HEAVY DUTY ACTUATOR MODEL 'EH5'

6 24VAC ON/OFF, 3-WIRE/4-PIN WeatherPak Tower

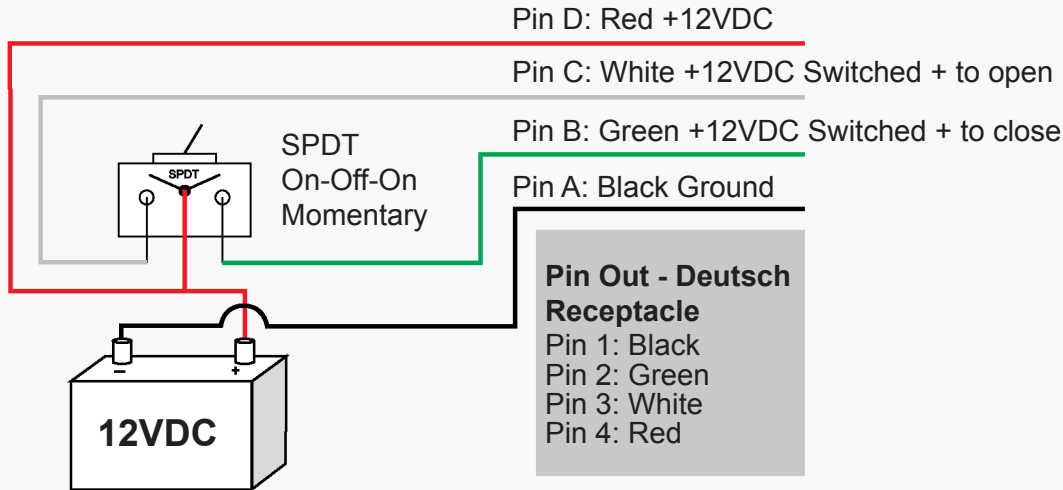
(66)



Similar Actuator Part Numbers
 10A53-DB1
 10A53-PB1
 10A5S-DB1
 10A5S-PB1

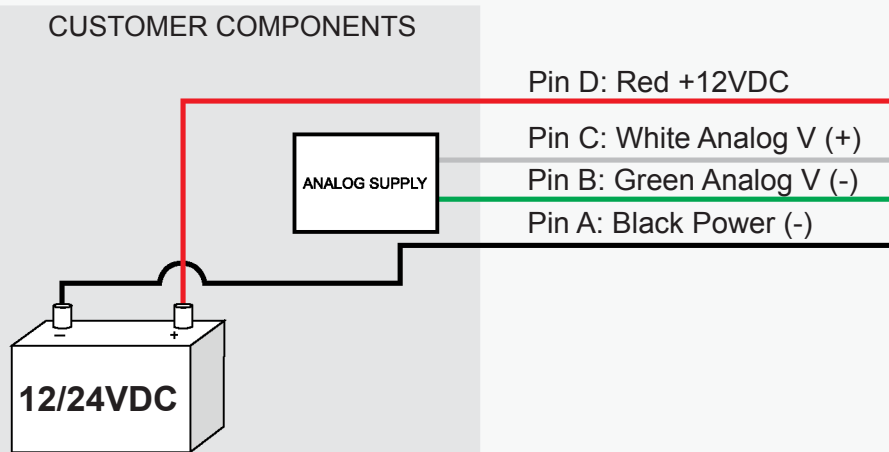
8 STANDARD 12VDC REGULATING 4-WIRE/4-PIN WeatherPak Tower, SPDT

(62)



Similar Actuator Part Numbers
 20D50-DB1

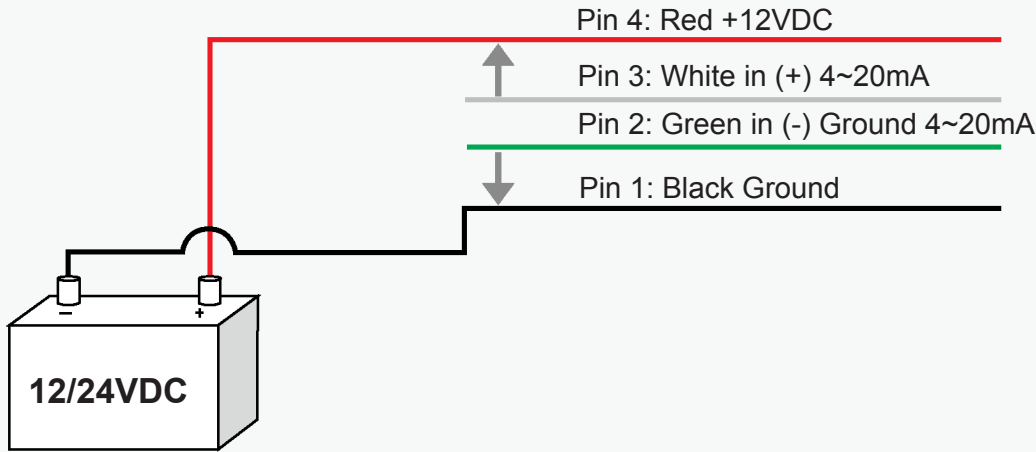
9 ANALOG WIRING 0-5V / 0-10V INPUT 12/24VDC



Similar Actuator Part Numbers
 C0A5S-DB1

HEAVY DUTY ACTUATOR MODEL 'EH5'

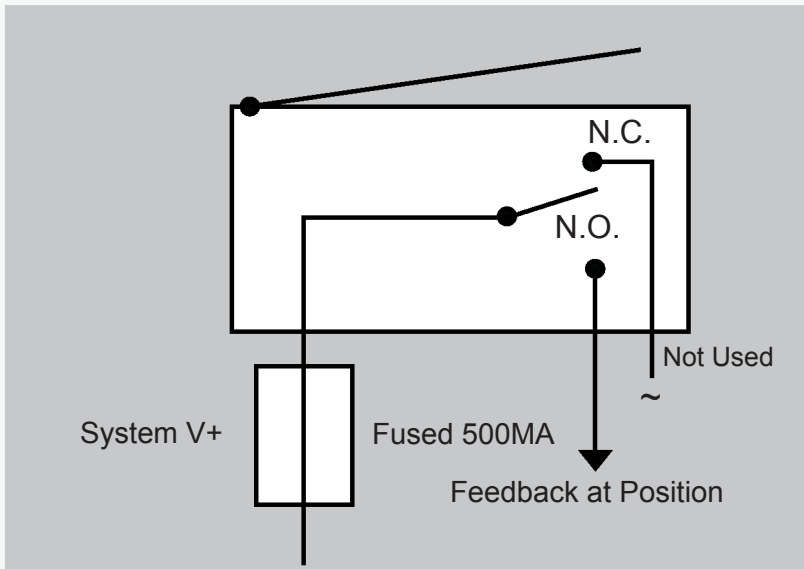
11 4 ~ 20mA POSITIONING CONTROL 12/24VDC, 4-WIRE/4-PIN DEUTSCH



Similar Actuator Part Numbers
A0E5S-DB1

12 F OPTION (Feedback Option 2) 2 WET LIMIT SWITCHES FOR FEEDBACK AT OPEN AND CLOSE FUSED: 500mA

EXAMPLE LIMIT SWITCH INSIDE ACTUATOR



Feedback Voltage = System Voltage

Similar Actuator Part Numbers
12D50-DB1
12E5S-DB1

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Red Power (+)
- Pin 3: White Switch to Open (+)
- Pin 4: Green (+) FB at Closed
- Pin 5: Blue (+) FB at Open
- Pin 6: BLANK

Similar Actuator Part Numbers
22D50-DB1

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green Switch to Close (+)
- Pin 3: White Switch to Open (+)
- Pin 4: Red (+) Constant Power In
- Pin 5: Orange (+) FB at Open
- Pin 6: Purple (+) FB at Closed

HEAVY DUTY ACTUATOR MODEL 'EH5'

13 E OPTION (Feedback Option 3) 2 DRY LIMIT SWITCHES FOR FEEDBACK AT OPEN AND CLOSE FUSED: 500mA

Similar Actuator Part Numbers
23D50-DB1

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green FB Common
- Pin 3: White Switch (+) to Open
- Pin 4: Red Constant Power (+)
- Pin 5: Orange FB at Open
- Pin 6: Purple FB at Closed

Similar Actuator Part Numbers
23E5S-DB1

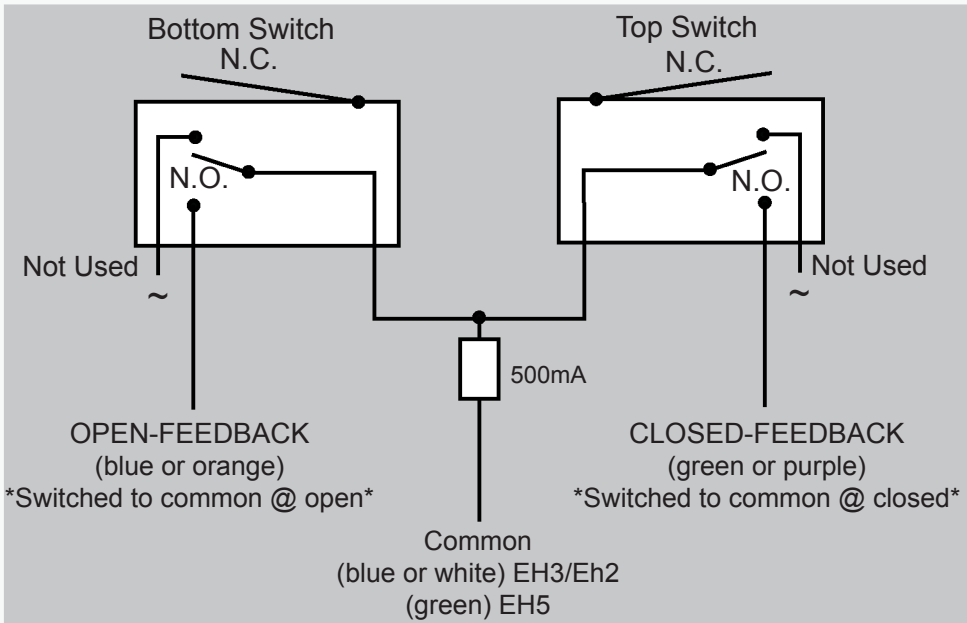
Pin Out - Deutsch Receptacle

- Pin 1: Black Closed
- Pin 2: Blank
- Pin 3: White Common FB
- Pin 4: Red Open

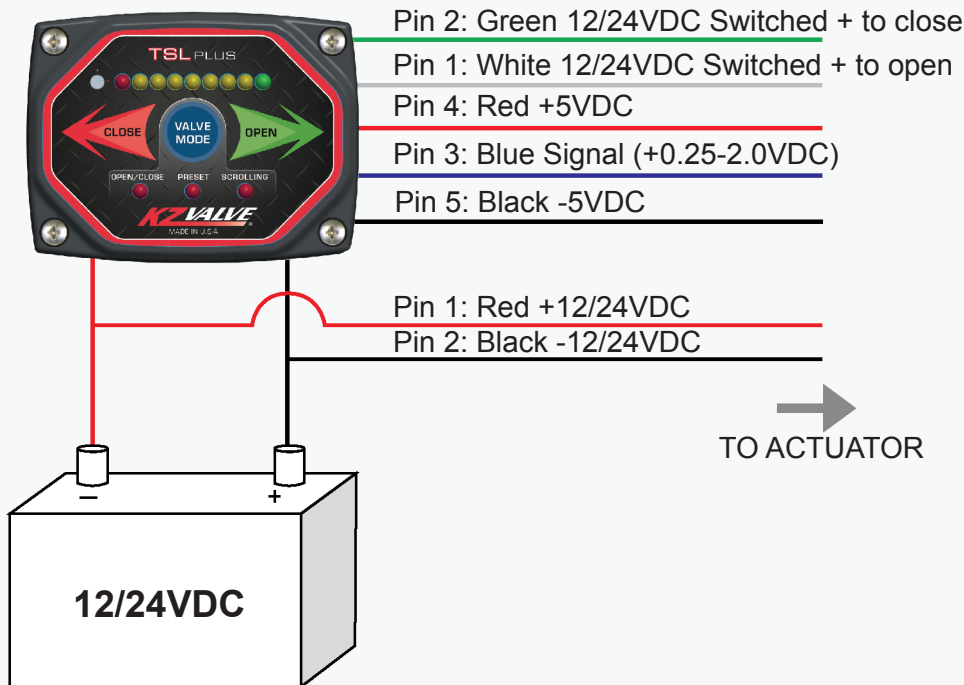
Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green Switch (+) to Close
- Pin 3: White Switch (+) to Open
- Pin 4: Red Power (+)

AUXILIARY SWITCHES INSIDE ACTUATOR



14 TSL/SL 12/24VDC REGULATING POSITION W/ FEEDBACK, DEUTSCH DT6R X DT4P



Similar Actuator Part Numbers
25D50-DB3
25E5S-DB3

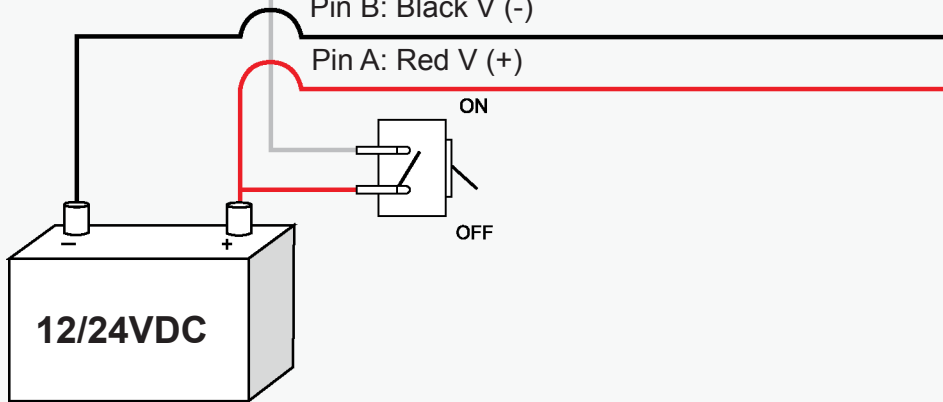
ACTUATOR MODEL 'EH7'

1 STANDARD 12VDC ON/OFF, 3-WIRE/3-PIN, SPST

Pin C: White +12VDC=Relay Energized "Open"
0 VDC=Relay De-Energized "Close"

Pin B: Black V (-)

Pin A: Red V (+)



Similar Actuator Part Numbers
10DK0-131
10DK0-P01

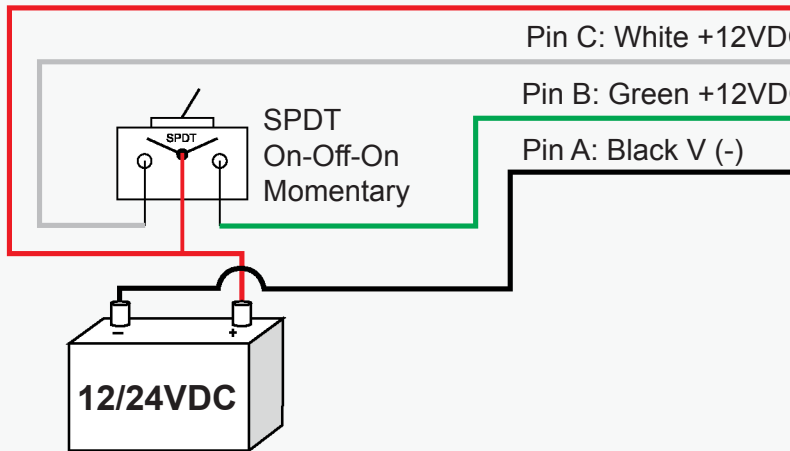
8 STANDARD 12VDC REGULATING 4-WIRE/4-PIN WeatherPak Tower, SPDT

Pin D: Red V (+)

Pin C: White +12VDC Switched + to open

Pin B: Green +12VDC Switched + to close

Pin A: Black V (-)

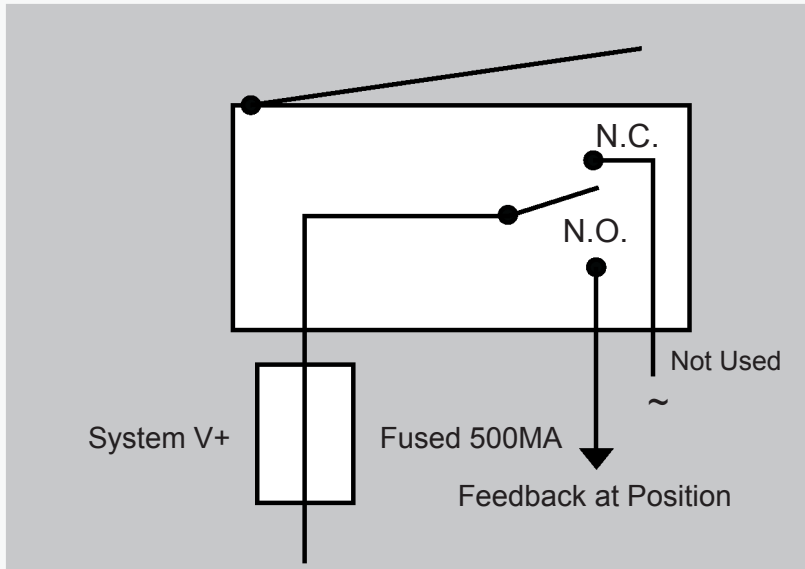


Similar Actuator Part Numbers
20DJ0-P01
20DK0-PB1
20EJS-P31

ACTUATOR MODEL 'EH7'

12 1 LIMIT SWITCHES FOR FEEDBACK AT OPEN OR CLOSE FUSED: 500mA~

EXAMPLE LIMIT SWITCH INSIDE ACTUATOR



Feedback Voltage = System Voltage

Similar Actuator Part Numbers
1ADK0-131

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Red Power (+)
- Pin 3: White Switch to Open (+)
- Pin 4: Green (+) FB at Closed
- Pin 5: Blue (+) FB at Open
- Pin 6: BLANK

Pin Out - Deutsch Receptacle

- Pin 1: Black Power (-)
- Pin 2: Green Switch to Close (+)
- Pin 3: White Switch to Open (+)
- Pin 4: Red (+) Constant Power In
- Pin 5: Orange (+) FB at Open
- Pin 6: Purple (+) FB at Closed