22mm Inrush Protection Switch
IP 69K   20Amp   120A Surge

Features

▶ One channel 20 Amp max. Electrical Rating.
▶ Two channels 10 Amp max. /Channel Electrical Rating.
▶ At night every switch is backlit with Blue LED light for great visibiity. Turn on a particular function and the LED turns Red letting you know the function is turned on.
▶ Stainless Steel SS316 Body and IP69K Waterproof Rating.
▶ Protection from Salt Spray (Fog) Test (EN ISO 9227-17).
▶ 20g Bump Shock Test Approved.
   Wires/Switch meet Flammability Rating UL 94 V2 and
▶ All material will be non-flammable or will be 105°C spec.
   When the pump is running, the LED turns red automatically
▶ With Ultra Bright LEDs

Specification

Illuminated	Ultra Bright LEDs Blue,Green,Red,Yellow,White LED
Voltage Rating	9VDC ~ 24 VDC
Current Rating	20A 12VDC, 80A Surge (200 ms)
Reverse Polarity Protection	24 VDC
Initial Contact Resistance	≤ 10 mΩ
Overload Protection	≥120A, Flashing white LED
	Outputs do not function
	Switch is reset by press button
Mechanical Life	50,000 Cycles
Electrical Life Contact	10,000 Cycles
Resistance Insulation	50 mΩ Maximum
Resistance	1000mΩ Miminum
Dielectric Strength	2,000 VAC
Operate Storage Temp	-20°C ~ +55°C
Travel	1.50mm
Moistrue Protection	IP69K
Contact Material	Silver Alloy
Actuation Force	4 N
Panel Thickness	1-6mm
Mounting Nut Torque	5-14Nm
Construction Material	
Body Material	Stainless Steel SS316
Lens Material	PC material rated to 105°C
Switch Plug & Dongle	Nylon 6 rated to 105°C
Deutsch Recommended Part#	
Large socket	0462-203-12141
Small socket	0462-209-16141
Dummy Plug	14017-ZZ

Part No.

Function	Parts No.	Off / 1st On	2nd On / 3rd On	Rear Mark Page
Off-On	9059-1113	(Blue) / Red	X / X	3 Red dot
Off -(On)	9059-2113	(Blue) / Red	X / X	3 Green dot
Nav/Anc	9059-3114	(Blue) / Green	Red / X	4 White dot
Off-On-On	9059-3113	(Blue) / Green	Red / X	4 Blue dot
Off-On-On-Both	9059-3115	(Blue) / Green	Red / Yellow	5 Yellow dot
Off-(On)-(On)	9059-2123	(Blue) / Green	Red / X	5 Green dot
Off -(On)	9059-2213	(Red) / Red	X / X	6 Green dot
Auto Nav Photo Sensor	9059-3734	(Blue) / Green	Red / Yellow	6 White dot
Timer ON(1min G) OFF(2min Y)	9059-1555	(Blue) / Red	Green / Yellow	7 Red dot
Timer ON(2min Red) --> OFF	9059-1555F	(Blue) / Red	X / X	7 Red dot
Dimmer	9059-3116	(Blue) / Red	X / X	8 Green dot
3-way Switch	9059-5113	(Blue) / Red	X / X	9 Red dot
Off -(On) Ground	9059-2713	(Blue) / Red	Purple	10 Purple dot
Off - On Ground	9059-1713	(Blue) / Red	Purple	10 Purple dot
Off -(On) Signal	9059-2118	(Blue) / Red	Purple	11 Green dot

Replaceable Push Button Actuator

Style	Parts No.	
Full Translucent	9451-1001	
SS Ring	9451-1002	
Laser Logo(Blank)	9451-1005	
BW DT Connector	9053-3914	
Dummy Plug	114017-ZZ	
Laser Logo(Cust) Custom Text	9451-0001~ -0324	

Standard Legend Imprinting Code : 12 13

1

* We reserve the right to change specifications at any time without incurring any obligations !
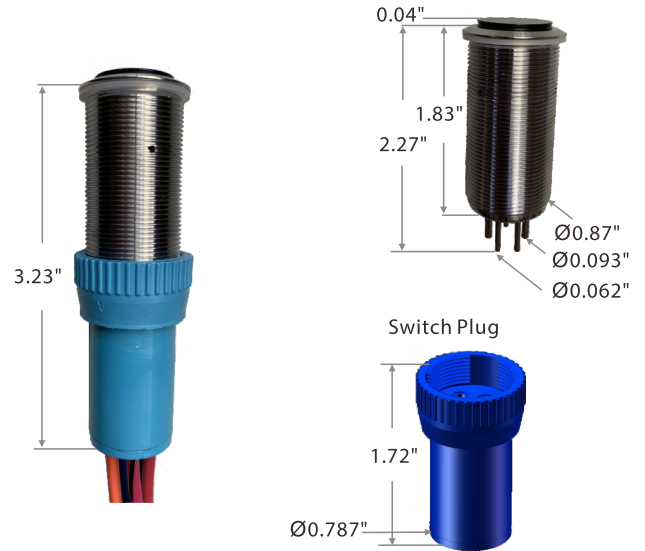
BLUEWATER

WARNING

▶ Dummy plugs required in Bluewater DT connectors for all non-wired (empty) pin locations.
▶ Failure to include dummy plug in non-wired (empty) pin locations in Bluewater DT Connector voids water tight rating and warranty.
▶ See part number for dummy plugs on page one.
▶ Wire sizes must meet minimum OD requirements listed on page one. Failure to meet the OD requirements voids water-tight rating and warranty
▶ Only use Bluewater DT connector, other connector will cause damage & void warranty.

Recommended Wiring

Orange (Power +)
Blue (Blue LED +)
Black (Ground -)
Red (Load 1 +)
Red/Black (Load 2 +)
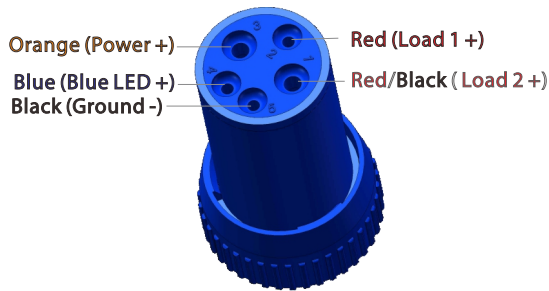
Black 16awg	Ground -
Blue 16awg	Blue LED +12Vdc
Red 14awg	Load1 +12Vdc
Orange 14awg	Power +12Vdc
Red/Black 14awg	Load2 +12Vdc

Size Diagram

0.04"
1.83"
2.27"
3.23"
Ø0.87"
Ø0.093"
Ø0.062"

Switch Plug

1.72"
Ø0.787"

Mounting Hole

Ø 0.89"
Ø 0.89"
1.246"
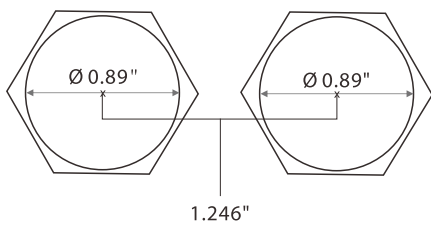
Recommended Minimum Center Spacing to allow for point-to-point mounting nut with center removal tool clearance

Replacing Actuator

Calibration Hook
Calibration Slot

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Clearwater, Florida
1-855-BLUE-700
www.bluewatergadgets.com

BLUEWATER

Operation

▶ Press turns on the device (LED turns Red) .
▶ Press turns off the device (LED turns Blue)

*Laser Etched Actuator in **Daytime Mode***
LED light is off.

*Laser Etched Actuator in **Nightime Mode***
The Blue LED provides great visibility of
the function switches and lets you know
that the swithes are in off position .

*Laser Etched Actuator in **On Mode***
The Red LED lets you know that the
device is on .

*Laser Etched Actuator in **Inrush Protection Mode***
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, output does not
funstion, Switch is reset by Press Button .
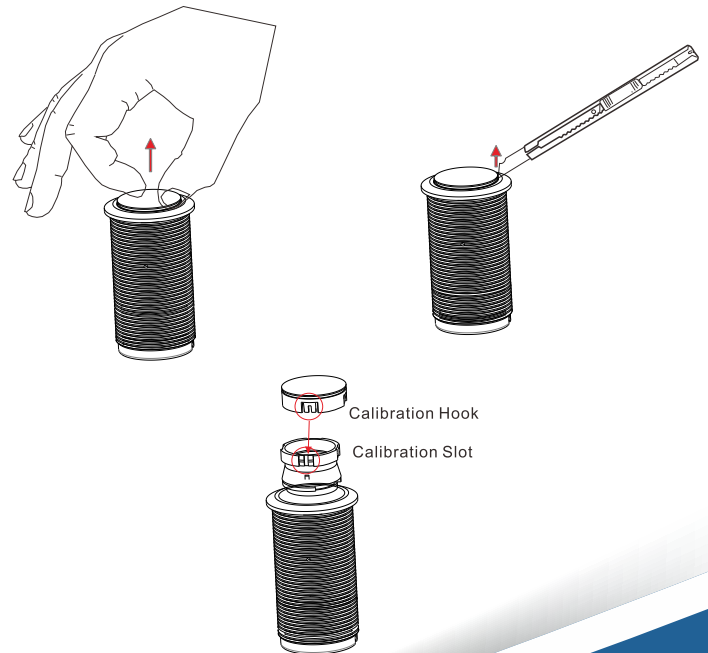
REAR PLUG VIEW

OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS RED [LOAD 1 ON]
2ND PUSH - OFF

NO CONNECTION
SEAL
B+ INPUT
FUSE (MAX 20A)
LOAD - MAX 20A
BLUE LED B+
RED DOT ON REAR
CENTER OF SWITCH.
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

COURTESY LIGHTS EXAMPLE

OFF CAN BE BLUE BACKLIT - APPLY B+ TO 4.
1ST PUSH - LIGHTS RED [COURT LTS ON]
2ND PUSH - OFF

NO CONNECTION
SEAL
B+ INPUT
FUSE (MAX 20A)
COURT
LIGHTS
MAX 20A
2-NO CONNECTION
3-B+ INPUT
4-BLUE LED
5-GRD
BLUE LED B+
RED DOT ON REAR
CENTER OF SWITCH.
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

Operation

▶ Press and hold the button to turns on the device (LED turns Red) .
▶ Release the button to turns off the device (LED turns Blue)

*Laser Etched Actuator in **Daytime Mode***
LED light is off.

*Laser Etched Actuator in **Nightime Mode***
The Blue LED provides great visibility of
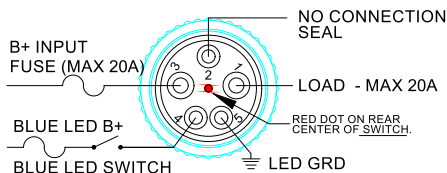*the function switches and lets you know*
that the swithes are in off position .

*Laser Etched Actuator in **On Mode***
The Red LED lets you know that the
device is on .

*Laser Etched Actuator in **Inrush Protection Mode***
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, output does not
funstion, Switch is reset by Press Button .
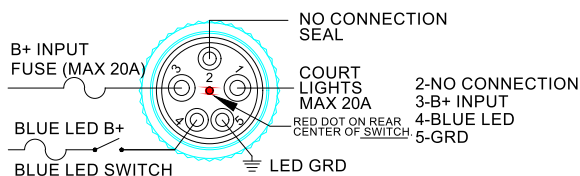
REAR PLUG VIEW

OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF

NO CONNECTION
SEAL
B+ INPUT
FUSE (MAX 20A)
LOAD 1 - MAX 20A
MAX 20A
GREEN DOT ON REAR
CENTER OF SWITCH.
BLUE LED B+
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 4, 5 ARE DEUTCH DP [SMALL] FEM TERM
POS 2 SEAL

HORN EXAMPLE

OFF CAN BE BLUE BACKLIT - APPLY B+ TO 4.
MOM PUSH - LIGHTS RED [HORN ON]
RELEASE OFF

NO CONNECTION
SEAL
B+ INPUT
FUSE (MAX 20A)
HORN
MAX 20A
2-NO CONNECTION
3-B+ INPUT
4-BLUE LED
5-GRD
BLUE LED B+
GREEN DOT ON REAR
CENTER OF SWITCH.
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

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9059-3114 — Nav/Anc Switch
OFF-[1 & 2 ON]-[2 ON & 1 OFF]

Operation

▶ Press turns on the Navigation & Anchor lights (LED turns Green).
▶ Press leaves Anchor light on and turns off Navigation light (LED turns Red)
▶ Press turns off Anchor light (LED turns Blue)

Laser Etched Actuator in Daytime Mode
LED light is off.

Laser Etched Actuator in Nightime Mode
The Blue LED provides great visibility of the function switches and lets you know that the swithes are in off position.

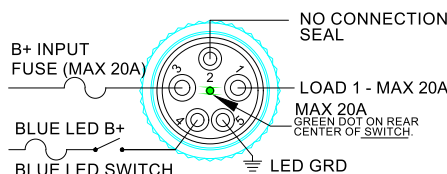*Laser Etched Actuator in Nav/Anc Mode*
The Green LED lets you know that the Nav and Anchor switches are in on position.

Laser Etched Actuator in Anchor Mode
The Red LED lets you know that the Anchor switch is on.

Laser Etched Actuator in Inrush Protection Mode
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, outputs do not funstion, Switch is reset by Press Button.
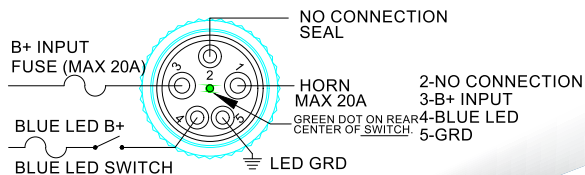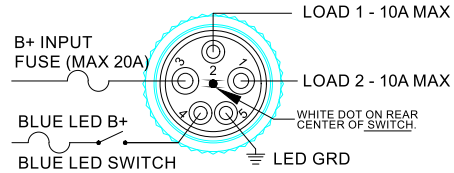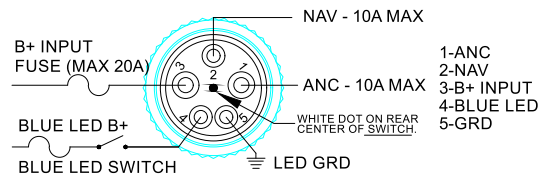
REAR PLUG VIEW

OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS GREEN [BOTH 1 & 2 LOADS ON]
2ND PUSH - LIGHTS RED [ONLY LOAD 2 ON]
3RD PUSH - OFF

B+ INPUT FUSE (MAX 20A)
LOAD 1 - 10A MAX
LOAD 2 - 10A MAX
BLUE LED B+
WHITE DOT ON REAR CENTER OF SWITCH.
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

NAV/ANC EXAMPLE

OFF CAN BE BLUE BACKLIT - APPLY B+ TO 4.
1ST PUSH - LIGHTS GREEN [BOTH NAV & ANC LOADS ON]
2ND PUSH LIGHTS RED [ONLY ANC LOAD ON]

B+ INPUT FUSE (MAX 20A)
NAV - 10A MAX
ANC - 10A MAX
BLUE LED B+
WHITE DOT ON REAR CENTER OF SWITCH.
BLUE LED SWITCH
LED GRD

1-ANC
2-NAV
3-B+ INPUT
4-BLUE LED
5-GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

9059-3113 — Off-On-On Switch
OFF-[1 ON & 2 OFF]-[2 ON & 1 OFF]

Operation

▶ Press turns on Load 1 (LED turns Green).
▶ Press turns on Load 2 (LED turns Red)
▶ Press turns off Load 2 & 1 (LED turns Blue)

Laser Etched Actuator in Daytime Mode
LED light is off.

Laser Etched Actuator in Nightime Mode
The Blue LED provides great visibility of the function switches and lets you know that the swithes are in off position.

Laser Etched Actuator in Load 1 Mode
The Green LED lets you know that the Load 1 device is in on position.

Laser Etched Actuator in Load 2 Mode
The Red LED lets you know that the Load 2 deivce is on position.

Laser Etched Actuator in Inrush Protection Mode
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, outputs do not funstion, Switch is reset by Press Button.

REAR PLUG VIEW

OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS GREEN [LOAD 1 ON 2 OFF]
2ND PUSH - LIGHTS RED [LOAD 2 ON 1 OFF]
3RD PUSH - OFF

B+ INPUT FUSE (MAX 20A)
LOAD 1 - MAX 10A
LOAD 2 - MAX 10A
BLUE LED B+
BLUE DOT ON REAR CENTER OF SWITCH.
BLUE LED SWITCH
LED GRD

2 SPEED WIPER EXAMPLE

OFF CAN BE BLUE BACKLIT - APPLY B+ TO 4.
1ST PUSH - LIGHTS GREEN [LOW ON, HIGH OFF]
2ND PUSH - LIGHTS RED [HIGH ON, LOW OFF]
3RD PUSH - OFF

B+ INPUT FUSE (MAX 20A)
LOW SPEED - 10A MAX
HIGH SPEED MAX 10A
BLUE LED B+
BLUE DOT ON REAR CENTER OF SWITCH
BLUE LED SWITCH
LED GRD

1-LOW SPEED
2-HIGH SPEED
3-B+ INPUT
4-BLUE LED
5-LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

4

BLUEWATER

Operation

▶ Press turns on Load 1 (LED turns Green).
▶ Press turns on Load 2 (LED turns Red)
▶ Pres turns on both Load 1 & Load 2 (LED turns Yellow)
▶ Press turns off Load 2 & 1 (LED turns Blue)

Laser Etched Actuator in Daytime Mode
LED light is off.

Laser Etched Actuactor in Nightime Mode
The Blue LED provides great visibility of
the function switches and lets you know
that the swithes are in off position.

Laser Etched Actuactor in Load 1 Mode
The Green LED lets you know that the
Load 1 device is in on position.

Laser Etched Actuactor in Load 2 Mode
The Red LED lets you know that the
Load 2 deivce is on position.

Laser Etched Actuactor in Both Mode
The Yellow LED lets you know that the
Load 1 & Load 2 deivces are both on position.

Laser Etched Actuator in Inrush Protection Mode
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, outputs do not
funstion, Switch is reset by Press Button.

REAR PLUG VIEW

OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS GREEN [LOAD 1 ON, LOAD 2 OFF]
2ND PUSH - LIGHTS RED [LOAD 2 ON, LOAD 1 OFF]
3RD PUSH - LIGHTS YELLOW [LOAD 1 & 2 ON]

LOAD 1 - MAX 10A
B+ INPUT
FUSE (MAX 20A)
LOAD 2 - MAX 10A
MAX 10A
YELLOW DOT ON REAR
CENTER OF SWITCH.
BLUE LED B+
BLUE LED SWITCH
SWITCH GRD

2 LIVEWELL EXAMPLE

OFF CAN BE BLUE BACKLIT - APPLY B+ TO 4.
1ST PUSH - LIGHTS GREEN [LIVEWELL 1 ON, LIVEWELL 2 OFF]
2ND PUSH LIGHTS RED [LIVEWELL 2 ON, LIVEWELL1 OFF]
3RD PUSH LIGHTS YELLOW [LIVEWELL 1 & 2 ON]

SPREADER 1 - 10A MAX
B+ INPUT
FUSE (MAX 20A)
SPREADER 2
MAX 10A
YELLOW DOT ON REAR
CENTER OF SWITCH.
BLUE LED B+
BLUE LED SWITCH
LED GRD

1-SPREADER 1
2-SPREADER 2
3-B+ INPUT
4-BLUE LED
5-LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

Operation

▶ Press and hold the button turns on Load 1 (LED turns Green).
▶ Press and hold the button turns on Load 2 (LED turns Red).
▶ Release the button to turns off Load 1 & 2 (LED turns Blue)

Laser Etched Actuator in Daytime Mode
LED light is off.

Laser Etched Actuator in Nightime Mode
The Blue LED provides great visibility of
the function switches and lets you know
that the swithes are in off position.

Laser Etched Actuator in Load 1 Mode
The Green LED lets you know that the
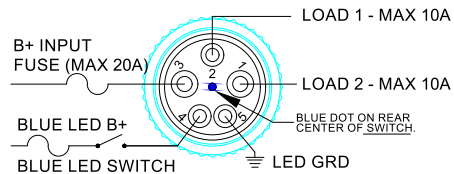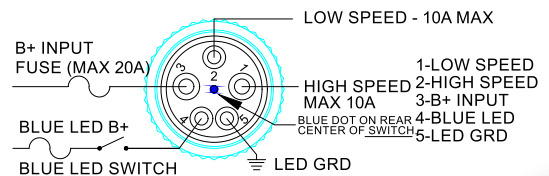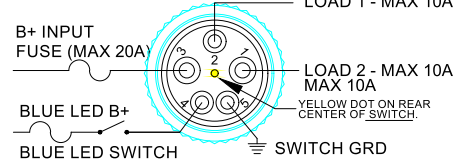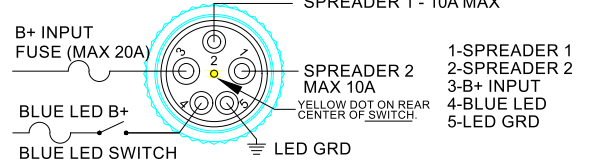*Load 1 device is in on position.*

Laser Etched Actuator in Load 2 Mode
The Red LED lets you know that the
Load 2 deivce is on position.

Laser Etched Actuator in Inrush Protection Mode
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, outputs do not
funstion, Switch is reset by Press Button.

REAR PLUG VIEW

OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
MOM 1ST PUSH - LIGHTS GREEN [LOAD 1 MOM ON]
MOM 2ND PUSH - LIGHTS RED [LOAD 2 MOM ON]
RELEASE - OFF
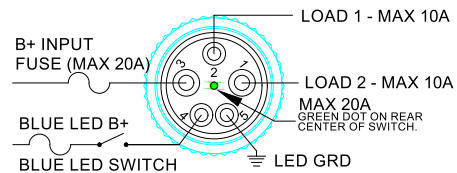
LOAD 1 - MAX 10A
B+ INPUT
FUSE (MAX 20A)
LOAD 2 - MAX 10A
MAX 20A
GREEN DOT ON REAR
CENTER OF SWITCH.
BLUE LED B+
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 4, 5 ARE DEUTCH DP [SMALL] FEM TERM
POS 2 SEAL

5

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Operation

▶ Press and hold the button to turns on the device (LED turns Red) .
▶ Release the button to turns off the device (LED turns Off or Red (unchange))

*LED light is off in **OFF position** ! .*
While the Terminal 4 (RED LED Switch) not connect to the Battery + !

*The Red LED in **OFF position** !*
While the Terminal 4 (RED LED Switch) connect to the Battery + !
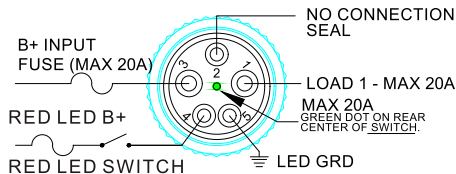
*Laser Etched Actuator in **On Mode***
The Red LED keep Light on !

*Laser Etched Actuator in **Inrush Protection Mode***
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, output does not funstion, Switch is reset by Press Button .

REAR PLUG VIEW

OFF CAN BE RED BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF (LED OFF OR KEEP LIGHTS RED)

B+ INPUT
FUSE (MAX 20A)
RED LED B+
RED LED SWITCH

NO CONNECTION SEAL
LOAD 1 - MAX 20A
MAX 20A
GREEN DOT ON REAR CENTER OF SWITCH.
LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 4, 5 ARE DEUTCH DP [SMALL] FEM TERM
POS 2 SEAL

HORN EXAMPLE

OFF CAN BE RED BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [HORN ON]
RELEASE - OFF (LED OFF OR KEEP LIGHTS RED)

B+ INPUT
FUSE (MAX 20A)
RED LED B+
RED LED SWITCH

NO CONNECTION SEAL
HORN MAX 20A
GREEN DOT ON REAR CENTER OF SWITCH.
LED GRD

2-NO CONNECTION
3-B+ INPUT
4-RED LED
5-GRD
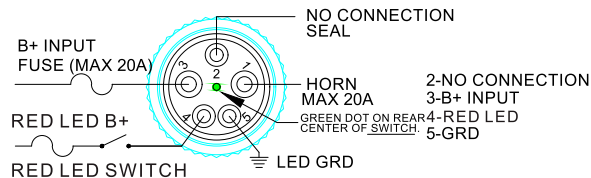
POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

Wiring

PHOTOELECTRONIC SWITCH

Photo Switch
Red White Black

accessory   run
o   start
off

Key Switch Positive

9059-3734

#2 Nav
#1 Anc
#3 B+ Input
#4 Photo Sensor Switch
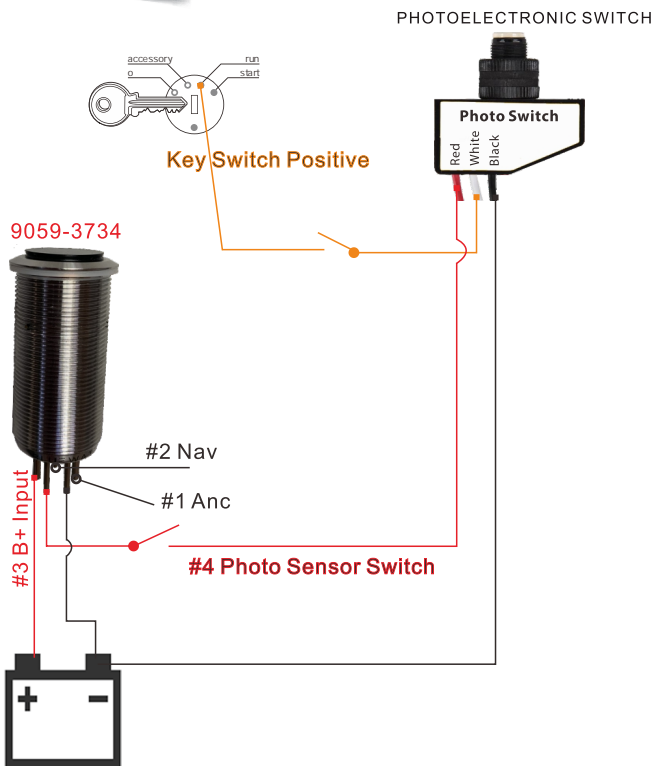
NAV/ANC EXAMPLE

RED (LOAD) FROM PHOTOELECTRIC SWITCH -
APPLY GROUND IN TO #4
1ST PUSH - LIGHTS GREEN [BOTH NAV & ANC LOADS ON]
2ND PUSH LIGHTS RED [ONLY ANC LOAD ON]
3RD PUSH LIGHTS TURN YELLOW (AUTO MODE)
OR TURN BLUE (NO OUTPUT)

B+ INPUT
FUSE (MAX 20A)
GROUND IN

NAV - 10A MAX
ANC - 10A MAX
WHITE DOT ON REAR CENTER OF SWITCH.
LED GRD

1-ANC
2-NAV
3-B+ INPUT
4- GRD IN
5-GRD
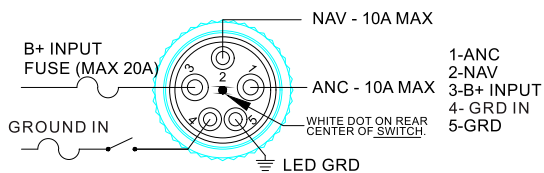
POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

Operation

2. Nightime
   (1) 9059- : Yellow (Auto Mode)
      (a) Turn on both Nav and Anc light automatically
      (b) Key Switch Off, no power to #4, 9059- Flash Yellow
          10 seconds then turn off Nav/Anc, and 9059- turn
          Blue
   (2) Override Auto Mode
      1st Press :
          9059- turn Green (Nav/Anc both Still on)
      2nd Press :
          9059- turn Red (Anc On, Nav Off)
      3rd Press
          (a) #4 +12 in or no input (Photo sensor not active)
              9059 turn Blue , No output
          (b) #4 Ground in (Photo sensor active)
              9059- turn yellow (Nav/Anc both on)
              back to Auto mode

Operation

Engine is running the Sensor is active (Auto Mode)
#4 Photo Sensor ON
1. Daytime
   9059- : blue led on, no output

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9059-1555 Timer Switch
ON(1min G) OFF(2min Y)

9059-1555 Operation

▶ Press turns on the device , LED lights Red.
▶ Press activate the timer function. Cycle on-off below
    turns on the device for 1 min then cycle off , LED lights Green
    turns off the device for 2 min then cycle On, LED lights Yellow
▶ Press the button to disable the timer function, turn LED to Blue color

*Laser Etched Actuator in **Daytime Mode***
LED light is off.

*Laser Etched Actuator in **Nightime Mode***
The Blue LED provides great visibility of
the function switches and lets you know
that the swithes are in off position .

*Laser Etched Actuator in **On Mode***
The Red LED lets you know that the
device is on .

*Laser Etched Actuator in **Timer On Mode***
The Green LED lets you know that the
device is on for 1min. then cycle to Timer Off

*Laser Etched Actuator in **Timer Off Mode***
The Yellow LED lets you know that the
device is off for 2min. then cycle to Timer On

REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

Press - turns ON the device, LED lights Red
Press 2nd - Activate the timer function, Cycle On-Off below

    Turns ON the device for 1 min, LED lights Green then cycle Off
    Turns OFF the device for 2 min, LED lights Yellow then cycle On
Press 3rd - Disable the timer function, LED lights Off or Blue bac klight

NO CONNECTION
SEAL
B+ INPUT
FUSE (MAX 20A)
LOAD 1 - MAX 20A
BLUE LED B+
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTSCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTSCH DP [SMALL] FEM TERM
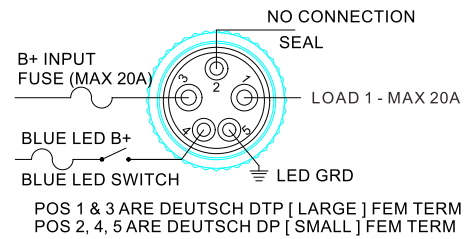
9059-1555F Timer Switch
ON(2min Red) --> OFF

9059-1555-2F Operation

▶ Press turns on the device , turn LED to Red color , and will
    automatically turn off the device after 2 miniutes , No Cycle !
▶ Press the button during 2 miniutes timer on period will turn
    off the device .

*Laser Etched Actuator in **Daytime Mode***
LED light is off.

*Laser Etched Actuator in **Nightime Mode***
The Blue LED provides great visibility of
the function switches and lets you know
that the swithes are in off position .

*Laser Etched Actuator in **Timer On Mode***
The Red LED lets you know that the
device is on . after 2 mins will turn off automatically

REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

Press - turns ON the device, LED lights Red and will automatically
    turns Off the device after 2 miniutes, No Cycle!
Press the button during 2 miniutes timer on period will turns off the device.
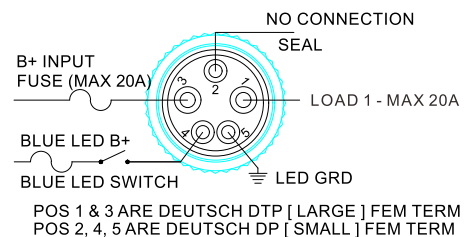
NO CONNECTION
SEAL
B+ INPUT
FUSE (MAX 20A)
LOAD 1 - MAX 20A
BLUE LED B+
BLUE LED SWITCH
LED GRD

POS 1 & 3 ARE DEUTSCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTSCH DP [SMALL] FEM TERM

BLUEWATER

Dimming Backlight 1

Dimming light source

Dimmer Sw1

Dimmer Sw2

Nav/Anc

On/Off

Momentary

Off/On/On

D1

Load1

+12V

LED B+

D2   Load1   S1   S2   S3   S4

Blue LED Enable (Wires Bus)

Dimmer Sw1 (D1) : Backlight Dimmer Switch
1. Load1 : Connect to Blue Wires Bus
2. LED B+ : Connect to +12VDC

Dimmer Sw2 (D2) : Lighting Dimmer Switch
1. Load1: Connect to light source (8Amp max), ex. LED light strip (except some high inrush current light source , ex. Gas-Filled Lamps, will damage the sw)
2. LED B+ : connect to Blue Wires Bus

S1 ~ S4... : Normal E Switch : Blue back light can be controlled by Dimmer Sw1 (D1)
1. D1 Off (D1 Blue LED on) : S1~S4 no backlight turn on
2. D1 On (D1 Red LED on) : S1~S4 All Blue LED turn on AT OFF POSITION and its back light level can be controlled by D1 (PWM)

Dimming Backlight 2

Dimming light source

Dimmer Sw1

Dimmer Sw2

Nav/Anc

On/Off

Momentary

Off/On/On

D1

LED B+

Load1

D2   Load1   S1   S2   S3   S4

Blue LED Enable (Wires Bus)

Dimmer Sw1 (D1) : Backlight Dimmer Switch
1. Load1 : Connect to Blue Wires Bus
2. LED B+ : Connect to Blue Wires Bus also
3. D1 Dimming: D1 Red light dim same light level as S1~S4

Dimmer Sw2 (D2) : Lighting Dimmer Switch
1. Load1: Connect to light source (8Amp max), ex. LED light strip (except some high inrush current light source , ex. Gas-Filled Lamps, will damage the sw)
2. LED B+ : connect to Blue Wires Bus

S1 ~ S4... : Normal E Switch : Blue back light can be controlled by Dimmer Sw1 (D1)
1. D1 Off (D1 Blue LED off) : S1~S4 no backlight turn on
2. D1 On (D1 Red LED on) : S1~S4 All Blue LED turn on AT OFF POSITION and its back light level can be controlled by D1 (PWM)

REAR PLUG VIEW (D1)

OFF CAN BE BLUE BACKLIT
ON CAN BE RED LIGHT } - APPLY LED B+ TO TERM 4.
TERM 4. NO POWER INPUT, D1 WILL BE NO LIGHT AT OFF NOR ON

1ST PUSH (Red) - TURN ON ALL LAST BLUE BACK LIGHTS LEVEL(WIRES BUS)
2ND PRESS & HOLD (Red) - DIMMING ALL BACK LIGHTS LEVEL
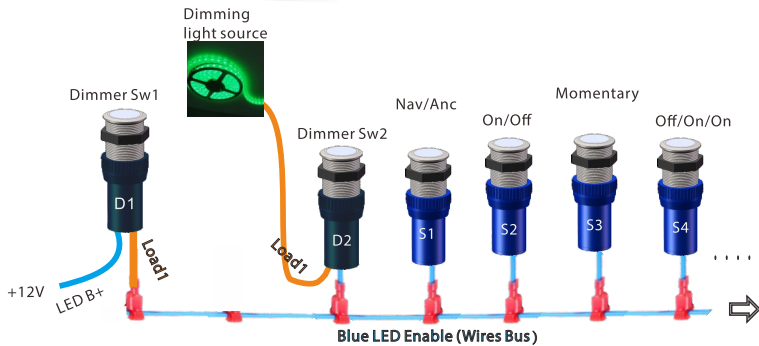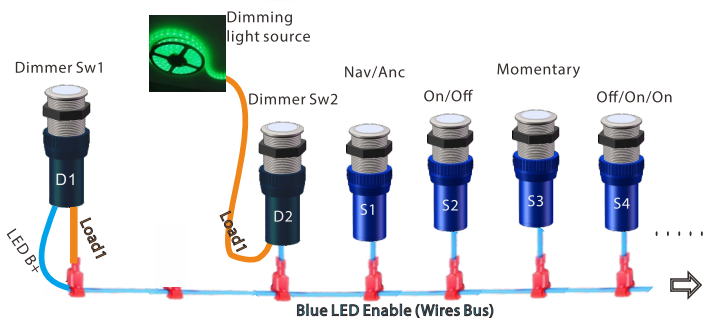3RD PUSH (Blue) - TURN OFF ALL BLUE BACK LIGHTS (NO LIGHT AT OFF) AND KEEP LAST LIGHT LEVEL IN D1 MEMOERY

NO CONNECTION SEAL

B+ INPUT
FUSE (MAX 8A)

LOAD - MAX 8A (TO WIRES BUS)

LED B+

RED DOT WITH BLUE CYCLE ON REAR CENTER OF SWITCH.

LED SWITCH

LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM
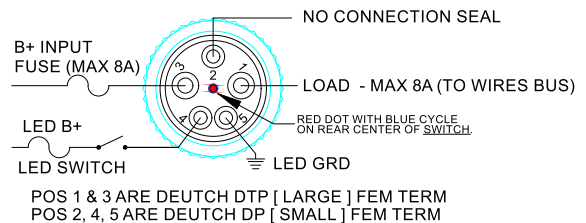
REAR PLUG VIEW (D2)

OFF CAN BE BLUE BACKLIT
ON CAN BE RED LIGHT } - APPLY LED B+ TO WIRES BUS
D1 IS OFF, D2 WILL BE NO LIGHT AT OFF NOR ON

1ST PUSH (Red) - TURN ON LIGHT SOURCE ON LAST LIGHT LEVEL
2ND PRESS & HOLD (Red) - DIMMING LIGHT SOURCE LIGHT LEVEL
3RD PUSH (Blue) - TURN OFF LIGHT SOURCE AND KEEP LAST LIGHT LEVEL IN D2 MEMORY

NO CONNECTION SEAL

B+ INPUT
FUSE (MAX 8A)

LOAD - MAX 8A (TO LIGHT SOURCE)

LED B+

RED DOT WITH BLUE CYCLE ON REAR CENTER OF SWITCH.

LED SWITCH

LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM
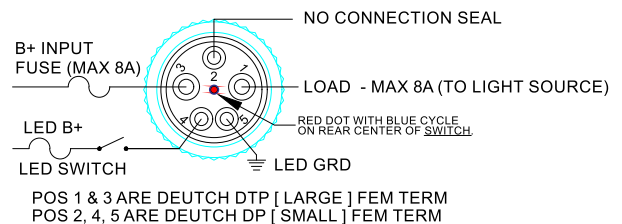
REAR PLUG VIEW (D1)

OFF NO BLUE BACKLIT
ON CAN BE RED LIGHT } - APPLY LED B+ TO WIRES BUS
D1 OFF (D1 LOAD1 NO POWER), D1 WILL BE NO LIGHT AT OFF

1ST PUSH (Red) - TURN ON ALL LAST BLUE BACK LIGHTS LEVEL (WIRES BUS) ALSO D1 RED LIGHT ON LAST LIGHT LEVEL
2ND PRESS & HOLD (Red) - DIMMING ALL BACK LIGHTS LEVEL INCLUDING DIMMING D1 RED LIGHT LEVEL
3RD PUSH (NO LIGHT) - TURN OFF ALL BLUE BACK LIGHTS (NO LIGHT AT OFF) ALSO TURN OFF D1 RED LIGHT (NO LIGHT), AND KEEP BLUE AND D1 RED LIGHT LEVEL IN D1 MEMORY,

NO CONNECTION SEAL

B+ INPUT
FUSE (MAX 8A)

LOAD - MAX 8A (TO WIRES BUS)

LED B+

RED DOT WITH BLUE CYCLE ON REAR CENTER OF SWITCH.

LED SWITCH
TO WIRES BUS

LED GRD

POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

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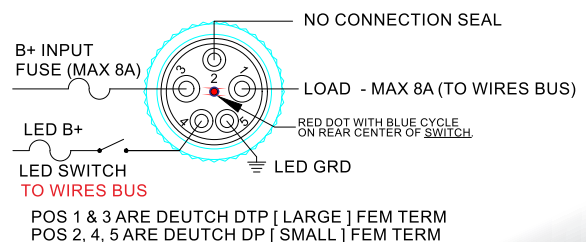
9059-5113 3-Way Inrush Switch
IP 69K 20Amp 600 feet

3-Way Switch System Diagram

WIRING DIAGRAM
Ground and Blue LED B+ connections are not shown in these diagram
Sychronize Line (Max. 600 feet)

Fuse

BATTERY

LOAD - MAX 20A

Load

SYCHRONIZE ON

① ①②③

SYCHRONIZE OFF

① ③②①
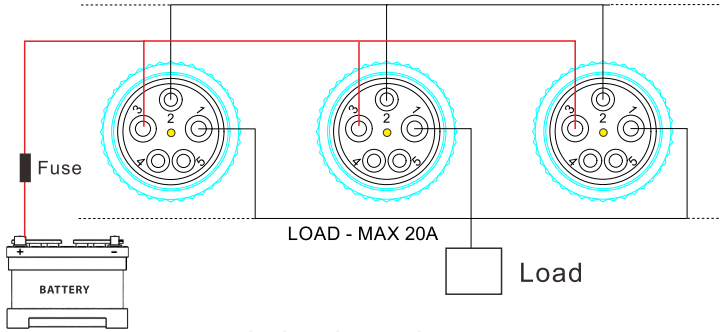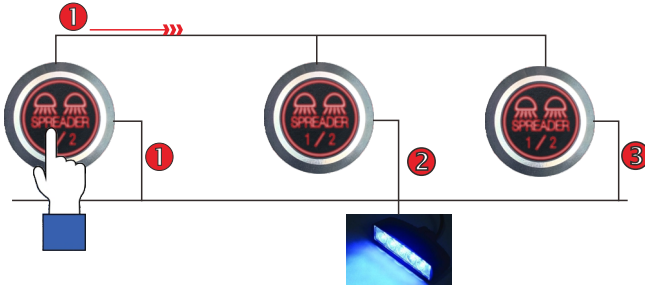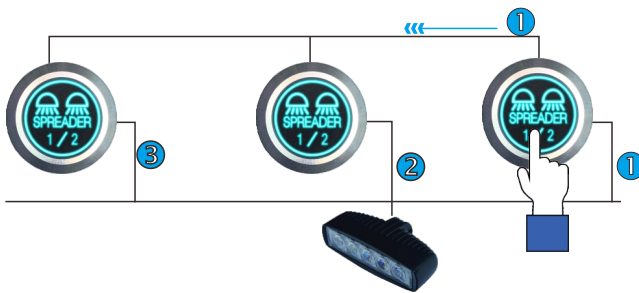
SYCHRONIZE OFF (FAULT)

① LED Flash

②①

Spreader Light Still On

▶ LED Keep Flashing while Turn Off the switch :
Indicate that one switch not received the Sychronize Off signal
▶ Turn On and Turn Off the Switch again to Sychronze switches .

Features

▶ Turn On or Off from one switch amond the network will
Sychronize On or Off to the other switches.

▶ Sychronize Network up to 6 switches (300 feet max) .

▶ Sychronize Line up to 600 feet max. (600' at 2 switches)

▶ 20 Amp Electrical Rating. 12VDC

▶ At night every switch is backlit with Blue LED light for great
visibiity. Turn on a particular function and the LED turns Red
letting you know the function is turned on.

▶ Stainless Steel SS316 Body and IP69K Waterproof Rating.

▶ Protection from Salt Spray.

▶ 20g Bump Shock Test Approved.

▶ Wires/Switch meet Flammability Rating UL 94 V2 and
All material will be non flammable or will be 105C spec.

Wiring

REAR PLUG VIEW

OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.

1ST PUSH - LIGHTS RED [LOAD ON]
2ND PUSH - OFF

Sychronize Line (Max. 600 feet)

B+ INPUT
FUSE (MAX 15A)

LOAD - MAX 20A

BLUE LED B+

BLUE LED SWITCH

LED GRD

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9059-2713 Ground Switch
Momentary / 7.5Amp

Operation

▶ Press and hold the button to turns on the device .
▶ Release the button to turns off the device .
▶ Pin #4 (Blue LED+) from +12VDC to 24VDC , turn LED to Blue color
▶ Pin #2 (Red LED+) from +12VDC to 24VDC , turn LED to Red color
▶ Pin #2 & Pin #4 both from +12VDC to 24VDC, turn LED to Purple color

Pin#2 & Pin#4 without power **, LED is Off**

Pin #4 (Blue LED+) from +12VDC to 24VDC , LED color turn to **Blue**

Pin #2 (Red LED+) from +12VDC to 24VDC , color turn to **Red.**

Pin #2 & Pin #4 from +12VDC to 24VDC , color turn to **Purple.**

REAR PLUG VIEW

APPLY B+ TO PIN #4,PIN #2,PIN #4 & #2 TURN LED BLUE,RED,PURPLE
PRESS AND HOLD THE BUTTON - NEG LOAD ON
RELEASE THE BUTTON - NEG LOAD OFF

EXT SOURCE RED
LED +12V~24VDC

FUSE (MAX 7.5A)
12V B+

DC NEG LOAD
MAX 7.5A

EXT SOURCE BLUE
LED +12V~24VDC

DC GROUND INPUT

9059-1713 Ground Switch
Latching

Operation

▶ First push to turn on the device , (LED no change).
▶ Second push to turn off the device , (LED no change)
▶ Pin #4 (Blue LED+) from +12VDC to 24VDC , turn LED to Blue color
▶ Pin #2 (Red LED+) from +12VDC to 24VDC , turn LED to Red color
▶ Pin #2 & Pin #4 both from +12VDC to 24VDC, turn LED to Purple color

Pin#2 & Pin#4 without power **, LED is Off**

Pin #4 (Blue LED+) from +3VDC to 24VDC , LED color turn to **Blue**

Pin #2 (Red LED+) from +3VDC to 24VDC , color turn to **Red.**

Pin #2 & Pin #4 from +3VDC to 24VDC , color turn to **Purple.**

REAR PLUG VIEW

APPLY B+ TO PIN #4,PIN #2,PIN #4 & #2 TURN LED BLUE,RED,PURPLE
1ST PUSH - NEG LOAD ON
2ND PUSH - NEG LOAD OFF

EXT SOURCE RED
LED +12V~24VDC

FUSE (MAX 2A)
12V B+

DC NEG LOAD
MAX 2A

EXT SOURCE BLUE
LED +12V~24VDC

DC GROUND INPUT

BLUEWATER

Operation

▶ Press and hold the button to Close Contact A (Pin1) & Contact B(Pin 3), (LED no change).
▶ Release the button to Open Contact A(Pin1) & Contact B(Pin3), (LED no change)
▶ Pin #4 (Blue LED+) from +3VDC to 24VDC , turn LED to Blue color
▶ Pin #2 (Red LED+) from +3VDC to 24VDC , turn LED to Red color
▶ Pin #2 & Pin #4 both from +3VDC to 24VDC, turn LED to Purple color

REAR PLUG VIEW

MOM PUSH - LIGHTS PUR [SIGNAL OUTPUT]
RELEASE - OFF

EXT SOURCE RED
LED + 3~24VDC

CONTACT B
< 240mA/30VDC

CONTACT A
< 240mA/30VDC

EXT SOURCE BLUE
LED +3~24VDC

LED Common

Pin#2 & Pin#4 without power **, LED is Off**

Pin #4 (Blue LED+) from +3VDC to 24VDC , LED color turn to **Blue**

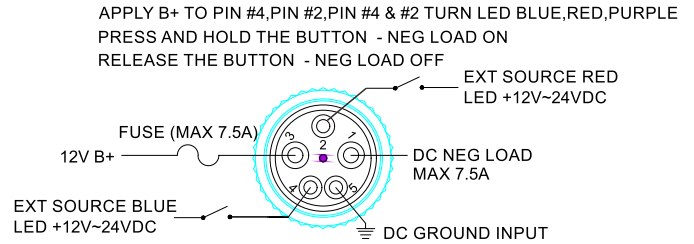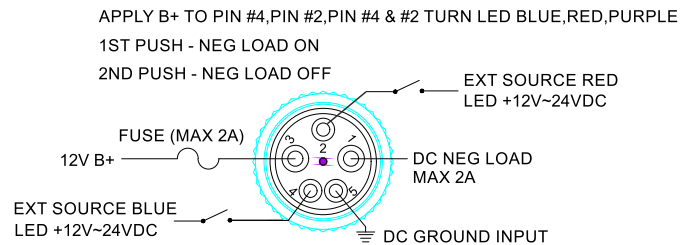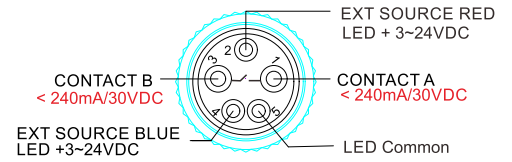Pin #2 (Red LED+) from +3VDC to 24VDC , color turn to **Red.**

Pin #2 & Pin #4 from +3VDC to 24VDC , color turn to **Purple.**

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9451-0001 ~0188 Legend Code
Custom Text Available

Code	Legend	Code	Legend	Code	Legend	Code	Legend
0001	(clock)	0002	(anchor/wheel)	0003	(sun)	0004	(shower)
0005	RAW	0006	FRESH	0007	ACC	0008	(livewell)
0009	LIVE WELL	0010	(toilet)	0011	NAV	0012	ANCH
0013	COURT	0014	ARCH	0015	DOCK	0016	U W
0017	ACC	0018	BILGE	0019	HORN	0020	BLOWER
0021	WIPER	0022	(fin)	0023	(fin)	0024	(anchor)
0025	(anchor)	0026	DIMMER	0027	DIMMER	0028	HATCH
0029	HATCH	0030	AFT BILGE	0031	FRESH WATER	0032	FISHBOX PUMP
0033	SPREADER	0034	TRIM TABS	0035	LIVEWELL	0036	LIVEWELL
0037	MAP-WHT	0038	MAP-BLU	0039	SUB FLOOR	0040	SHADE IN
0041	SHADE OUT	0042	WASHDOWN	0043	SEAT FWD	0044	SEAT BACK
0045	ELECT	0046	TOILET ADD WATER	0047	TOILET FLUSH	0048	FWD BILGE
0049	HEAD	0050	CABIN	0051	(light)	0052	(ANCH NAV)
0053	NAV ANCH	0054	MAP-RED	0055	STEREO	0056	BILGE
0057	EXHAUST	0058	HEAD VENT	0059	SUN ROOF OPEN	0060	SUN ROOF CLOSE
0061	EMER START	0062	FUEL SHUTOFF	0063	RECIRCULATE AUTO	0064	RECIRCULATE MAN
0065	AERATOR AUTO	0066	AERATOR MAN	0067	TRIM DN	0068	TRIM UP
0069	(power)	0070	LIVEWELL FWD	0071	LIVEWELL AFT	0072	SEAT UP
0073	SEAT DOWN	0074	VENT CLOSE	0075	VENT OPEN	0076	DECK
0077	LCKR	0078	HELM	0079	UWTR	0080	SPREADER FWD
0081	SPREADER AFT	0082	LIVEWELL 1	0083	LIVEWELL 2	0084	AFT BILGE
0085	WNDLS PWR	0086	WASTE	0087	START ENGINE STOP	0088	(snowflake)
0089	Refrigerator	0090	Hi Low	0091	HORN	0092	SLIDE PUMP
0093	UPPER DECK	0094	DIMMABLE	0095	DIMMABLE	0096	WINDSHIELD WASH
0097	STBD FISHBOX PUMP	0098	PORT FISHBOX PUMP	0099	(blank)	0100	FWD FISHBOX PUMP
0101	DOCK LTS	0102	SPKR LTS	0103	ACCY LTS	0104	LIVEWELL1 LTS
0105	LIVEWELL2 LTS	0106	MISTER	0107	LIVEWELL 1 / 2	0108	SPREADER 1 / 2
0109	SKIRT/H2O LTS	0110	RAIL LIGHTS	0111	STEP UP	0112	STEP DOWN
0113	(up arrow)	0114	(down arrow)	0115	(up/down arrow)	0116	POWER
0117	PRO AIR	0118	FWD RECIRC	0119	AFT RECIRC	0120	AERATOR
0121	BILGE ACCESS	0122	BILGE ACCESS	0123	STORAGE	0124	BLU-WHT
0125	LIVEWELL FWD/AFT	0126	SHADE	0127	SUNROOF	0128	COURT/BILGE
0129	HATCH	0130	ARCH	0131	MAP LIGHTS	0132	OVERHEAD COURT
0133	VENT	0134	FISHBOX PUMPS 1 2	0135	PANEL LTS	0136	FLOOR LTS
0137	UD	0138	STORAGE LTS	0139	INT	0140	EXT
0141	MAIN LIVEWELL	0142	MAIN LIVEWELL RECIRC	0143	DIMMER	0144	LIVEWELL 3
0145	FISHBOX PUMPOUT	0146	LIVEWELL3 LTS	0147	MID BILGE	0148	MOOD
0149	UNLATCH LATCH	0150	BILGE MAN-GREEN AUTO-RED	0151	NAV GREEN ANC RED	0152	COURTESY LIGHTS
0153	PANEL LIGHTS	0154	EQUIP ROOM LIGHTS	0155	NAV ANCHOR LIGHTS	0156	DOCKING LIGHTS
0157	SPREADER LIGHTS	0158	SUNROOF CLOSE	0159	SUNROOF OPEN	0160	AIR BOOST DASH
0161	BILGE BLOWER	0162	BILGE PUMP	0163	WIPER ON/OFF	0164	WNDSHLD WASH
0165	DEFOG	0166	WINDLASS ON/OFF	0167	WINDLASS UP	0168	WINDLASS DOWN
0169	PORT VENT OPEN	0170	PORT VENT CLOSE	0171	STBD VENT OPEN	0172	STBD VENT CLOSE
0173	MAST DOWN	0174	MAST UP	0175	PORT OUTRGR IN	0176	PORT OUTRGR OUT
0177	STBD OUTRGR IN	0178	STBD OUTRGR OUT	0179	HORN	0180	ROD HOLDER
0181	ROD HOLDER	0182	UNDER WATER	0183	UNDER DECK	0184	MOOD
0185	(line)	0186	(circle)	0187	COURT/STORAGE	0188	RED/WHITE MAP LT
0189	JACK PLATE	0190	JACK PLATE	0191	RAW	0192	OVHD

9451-0193 ~0324 Legend Code
Custom Text Available

LT BARS	PORT BILGE	STBD BILGE	COURT/COURTESY	MAIN LIVEWELL	MAIN LIVEWELL RECIRC	AFT BILGE	FWD BILGE	FLOOR LIVEWELL	FLOOR LIVEWELL RECIRC	RAW WATER PUMP	FRESH WATER PUMP
0193	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204
FLOOR DISCHRG	TUNA TUBE	25 QT BAITWELL	SPARE	NAV/ANC	DOWN LIGHTS	BOX LIGHTS	LIVEWELL LIGHTS	FWD SPREADER LIGHTS	AFT SPREADER LIGHTS	PORT SPREADER LIGHTS	STBD SPREADER LIGHTS
0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216
UNDER GUNNEL LIGHTS	LIGHT BAR	MODE	WIPER WASH	CENTER	PERIMETER	RED/WHT	RED LIGHTS	ACCENT LIGHTS	ACCENT LIGHTS COLOR	UNDER WATER LIGHTS	UNDRWTR LIGHTS COLOR
0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228
FWD SPREADER LIGHTS	AFT SPREADER LIGHTS	RAW WATER PUMP	WINDSHLD OPEN	WINDSHLD CLOSE	VHF ANT UP	VHF ANT DOWN	COOLER IN	COOLER OUT	SUN SHADE EXTEND	SUN SHADE RETRACT	TABLE DOWN
0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240
PORT LIVEWELL PUMP1	PORT LIVEWELL PUMP2	STBD LIVEWELL PUMP1	STBD LIVEWELL PUMP2	SEAT AFT	SEAT FWD	FISH BOX MACERATOR PORT	FISH BOX MACERATOR STBD	BOW STORAGE MACERATOR	PUSH TO TALK	TABLE UP	
0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252
MUTE	MAST LIGHT	ByPass	HORN		ACCENT	COLORS	COURTESY	ENGINES	INTERIOR	STORAGE	LIVEWELL LIGHTS
0253	0254	0255	9451-1019	9060-1001	0258	0259	0260	0261	0262	0263	0264
WATER FALL	BALLAST FILL	BALLAST EMPTY	ARCH UP	ARCH DOWN	MOOD	MASTER PWR	INT RGB	INT DIMMER	EXT RGB	EXT DIMMER	COOLED CUP
0265	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276
LIVEWELL 3	LIVEWELL 4	LIVEWELL 5	LIVEWELL 6	MOT ANCH	SPREADER SIDES	NAV ANC	BAITWELL 1	BAITWELL 2	BAITWELL 3	BAITWELL 4	BAITWELL 5
0277	0278	0279	0280	0281	0282	0283	0284	0285	0286	0287	0288
BAITWELL 6	MOTOR ANCH LT	SIDE SPRDR LTS	INT RGB	FISHBOX	RAW	FRESH	DECK	SPREADER FWD	SPREADER AFT	LIGHT BAR	WASHER
0289	0290	0291	0292	0293	0294	0295	0296	0297	0298	0299	0300
VENT IN OUT	WINDLESS UP/DOWN	T-TOP		9060-1001	POWER	NAV/ANC	LVWELL MN/AUT	RECIRC MN/AUT	INT LIGHTS BGT/DM	HORN	UP
0301	0302	0303	0304	9060-1001	0305	0306	0307	0308	0309	0310	0311
DOWN	ELECTRONICS	LCKR	2 min ON 2 min OFF	2 min OFF	HOUSE	START	SHOWER	WINDSHIELD VENT	STOMP GRATE	VHF	Ais
0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323
FLIR											
0324											