BLUEWATER

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
On -(Off)	9059-2913	Red / (Blue)	X / X	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

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

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

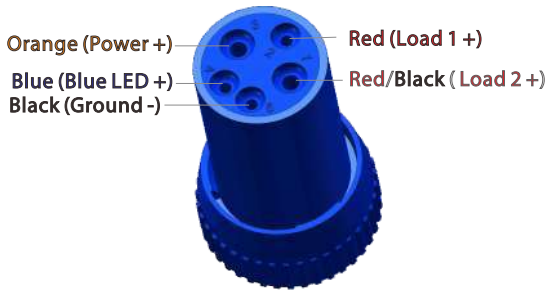
22mm Inrush Protection Switch

IP 69K 20Amp 120A Surge

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

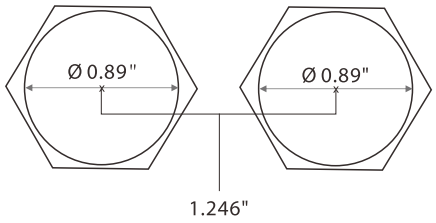


Black 16awg	Ground -
Blue 16awg	Blue LED +12Vdc
Red 14awg	Load1 +12Vdc
Orange 14awg	Power +12Vdc
Red/Black 14awg	Load2 +12Vdc

Size Diagram

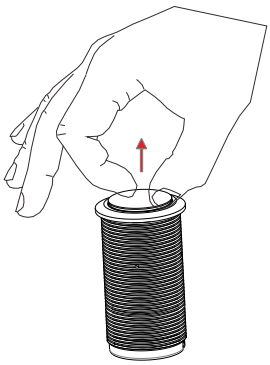
Switch Plug

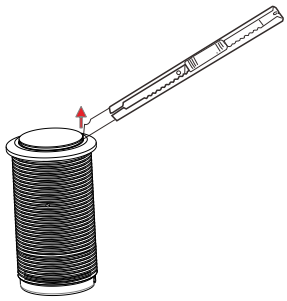
Mounting Hole

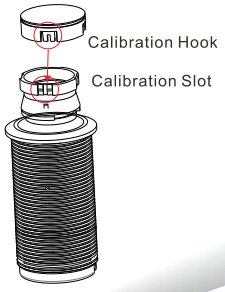


Recommended Minimum Center Spacing to allow for point-to-point mounting nut with center removal tool clearance

Replacing Actuator







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9059-1113 Off- On

Blue LED (Off) Red LED (On)

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.

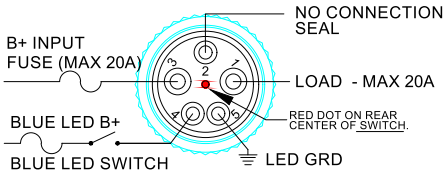
*Laser Etched Actuator in **Nightime Mode***
The Blue LED provides great visibility of the function switches and lets you know that the swithes are in off position.

*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

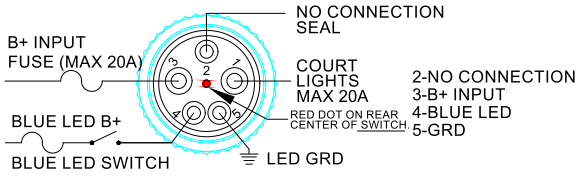
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS RED [LOAD 1 ON]
2ND PUSH - OFF



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



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

9059-2113 Off - (On)

OFF-[1 M ON ON] - [OFF] BLU/RED

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.

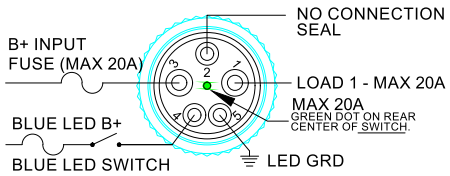
*Laser Etched Actuator in **Nightime Mode***
The Blue LED provides great visibility of the function switches and lets you know that the swithes are in off position.

*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

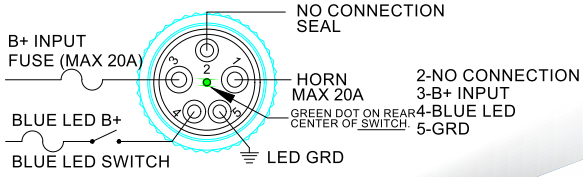
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF



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



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.

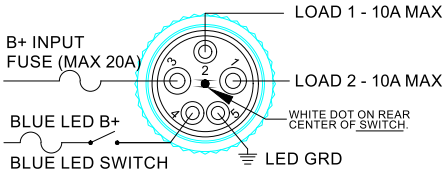
*Laser Etched Actuator in **Nav/Anc Mode***
The Green LED lets you know that the Nav and Anchor switches are in on position.

*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

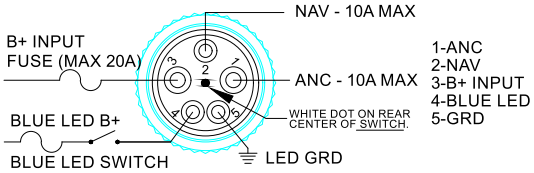
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS GREEN [BOTH 1 & 2 LOADS ON]
2ND PUSH - LIGHTS RED [ONLY LOAD 2 ON]
3RD PUSH - OFF



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]



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.

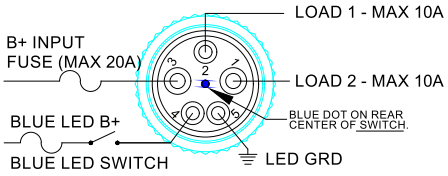
*Laser Etched Actuator in **Load 1 Mode***
The Green LED lets you know that the Load 1 device is in on position.

*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.

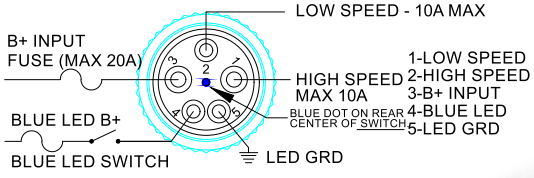
REAR PLUG VIEW

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



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



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

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9059-3115 OFF-1-2-BOTH

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)
- Pres turns on both Load 1 & Load 2 (LED turns Yellow)
- Press turns off Load 2 & 1 (LED turns Blue)

*Laser Etched Actuactor 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.

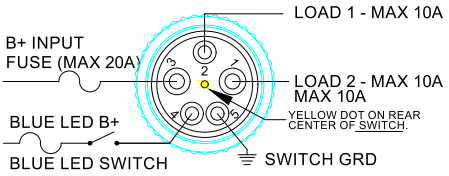
*Laser Etched Actuactor in **Load 2 Mode***
The Red LED lets you know that the Load 2 deivce is on position.

*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.

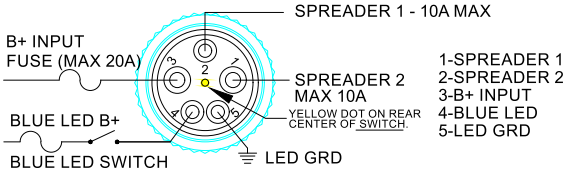
REAR PLUG VIEW

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]



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]



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

9059-2123 Dual Momentary

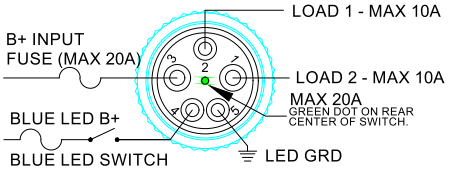
OFF-[1 M ON] - [2 MON] GRE/RED

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)

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



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

*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.

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9059-2213 HORN Switch

OFF-[1 M ON ON] - [OFF] Non/RED

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 + !

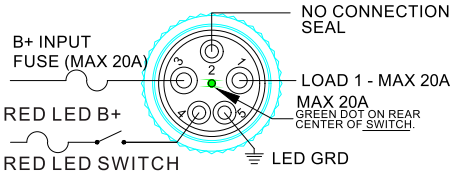
*The Red LED in **OFF position** !*
While the Terminal 4 (RED LED Switch) connect to the Battery + !

*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

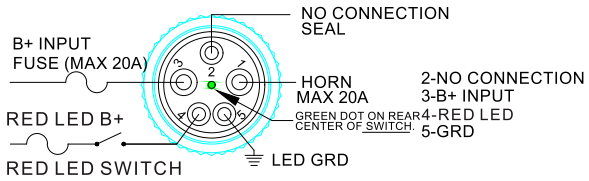
OFF CAN BE RED BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF (LED OFF OR KEEP LIGHTS RED)



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)

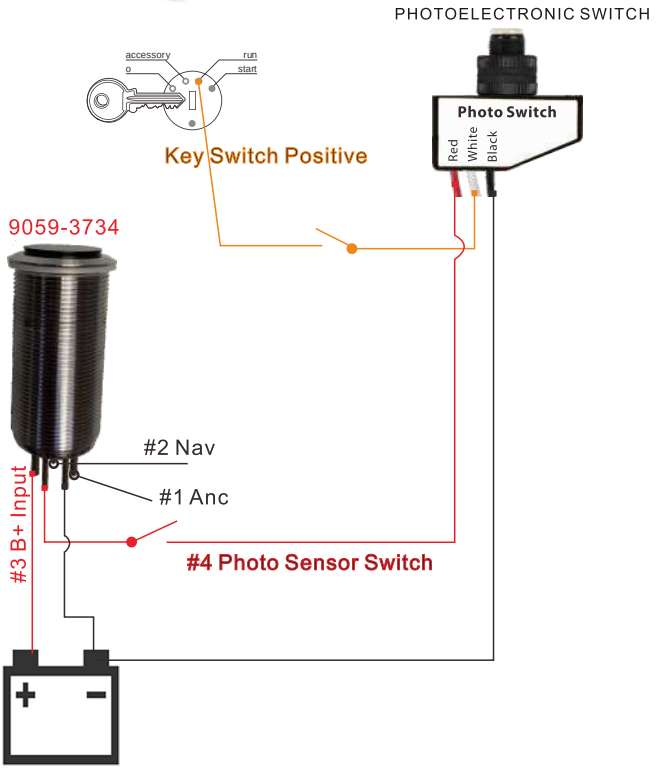


POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

9059-3734 Auto Nav Switch

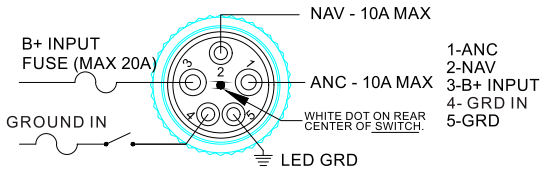
Nav/Anc w/ Photoelectric switch

Wiring



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)



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 .

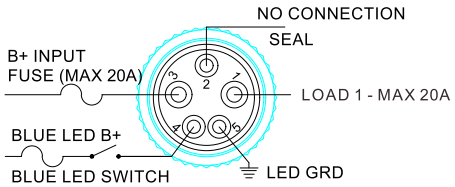
*Laser Etched Actuator in **Timer On Mode***
The Green LED lets you know that the device is on for 1min. then cycle to Timer Off

*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



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.

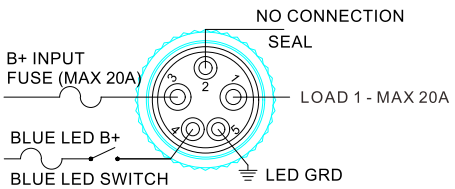
*Laser Etched Actuator in **Nightime Mode***
The Blue LED provides great visibility of the function switches and lets you know that the swithes are in off position .

*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.



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

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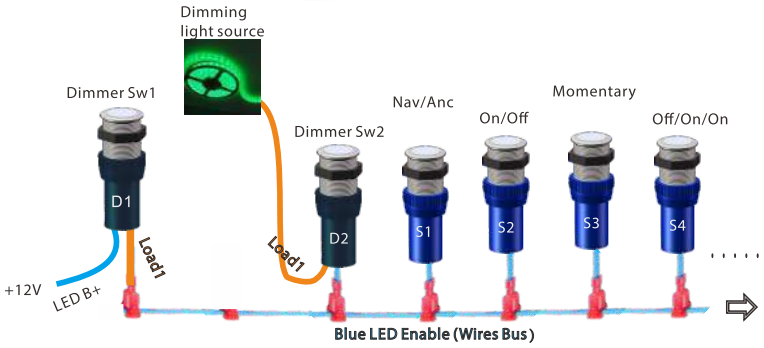
9059-3116 Dimmer Switch

Back light / On Dimming

Dimming Backlight 1



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

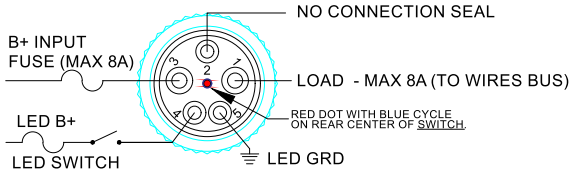
S1 ~ S4... : Normal E Switch : Blue back light can be controlled by Dimmer Sw1 (D1)
1. D1 Off (D1 Blue LED on) : S1~S4 no backlight turn on
2. D1 On (D1 Red LED on) : S1~S4 All Blue LED turn on AT OFF POSITION and its back light level can be controlled by D1 (PWM)

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



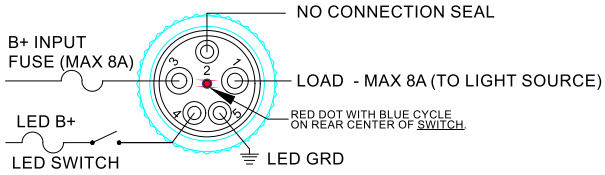
POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

REAR PLUG VIEW (D2)

OFF CAN BE BLUE BACKLIT
ON CAN BE RED LIGHT
} - APPLY LED B+ TO WIRES BUS

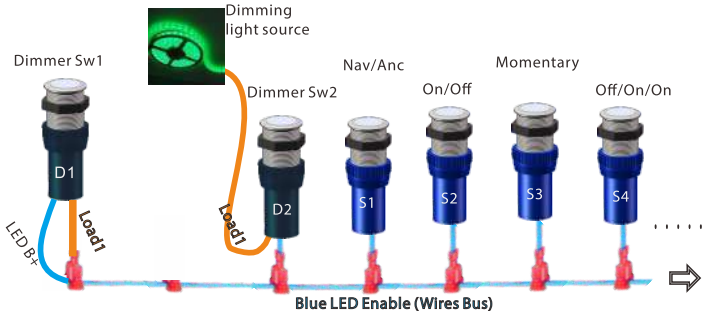
D1 IS OFF, D2 WILL BE NO LIGHT AT OFF NOR ON

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



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

Dimming Backlight 2



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

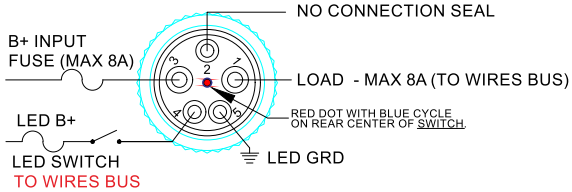
S1 ~ S4... : Normal E Switch : Blue back light can be controlled by Dimmer Sw1 (D1)
1. D1 Off (D1 Blue LED off) : S1~S4 no backlight turn on
2. D1 On (D1 Red LED on) : S1~S4 All Blue LED turn on AT OFF POSITION and its back light level can be controlled by D1 (PWM)

REAR PLUG VIEW (D1)

OFF 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,



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

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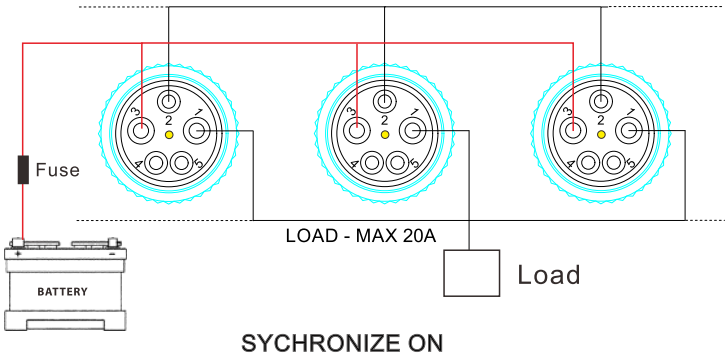
9059-5113 3-Way Inrush Switch

IP 69K 20Amp 600 feet

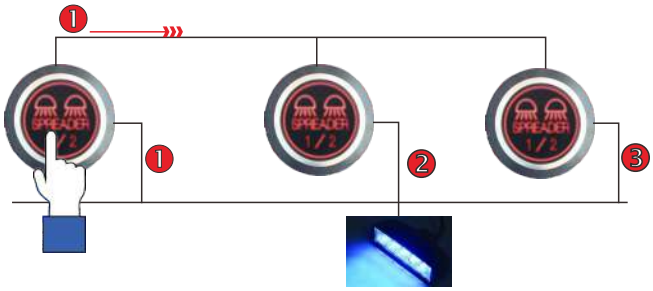
3-Way Switch System Diagram

WIRING DIAGRAM

Ground and Blue LED B+ connections are not shown in these diagram



SYCHRONIZE ON



SYCHRONIZE OFF

SYCHRONIZE OFF (FAULT)

- 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.

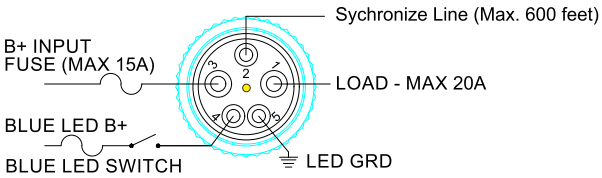
Wiring

REAR PLUG VIEW

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

1ST PUSH - LIGHTS RED [LOAD ON]

2ND PUSH - OFF



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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***

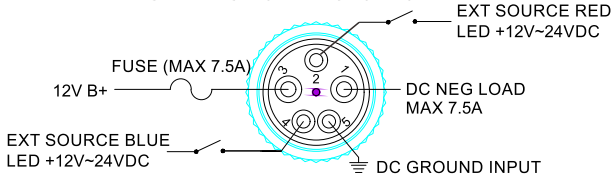
Pin #4 (Blue LED+) from +12VDC to 24VDC, LED color turn to ***Blue***

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



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***

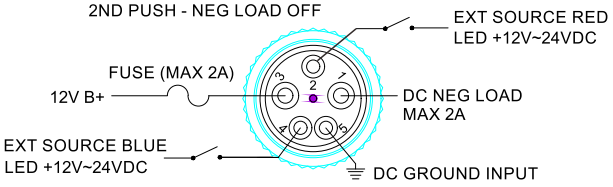
Pin #4 (Blue LED+) from +3VDC to 24VDC, LED color turn to ***Blue***

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



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9059-2118 Signal Switch

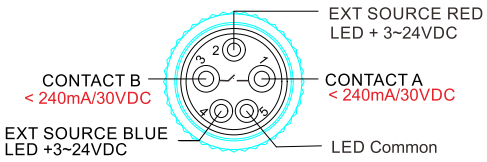
OFF - MOM ON

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



*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.***

9059-2913 Momentary N/C

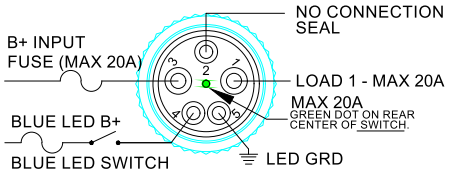
Red LED On Blue LED (Off)

Operation

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

REAR PLUG VIEW

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



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

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

*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 . Momentary Push

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

*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 .

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9451-0001 ~0188 Legend Code

Custom Text Available

 0001	 0002	 0003	 0004	 0005	 0006	 0007	 0008	 0009	 0010	 0011	 0012
 0013	 0014	 0015	 0016	 0017	 0018	 0019	 0020	 0021	 0022	 0023	 0024
 0025	 0026	 0027	 0028	 0029	 0030	 0031	 0032	 0033	 0034	 0035	 0036
 0037	 0038	 0039	 0040	0041	0042	0043	0044	0045	0046	0047	0048
0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060
0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072
0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084
0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096
0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108
0109	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120
0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	0131	0132
0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144
0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156
0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168
0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180
0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192

9451-0193 ~0324 Legend Code

Custom Text Available

 0193	 0194	 0195	 0196	 0197	 0198	 0199	 0200	 0201	 0202	 0203	 0204
 0205	 0206	 0207	 0208	 0209	 0210	 0211	 0212	 0213	 0214	 0215	 0216
 0217	 0218	 0219	 0220	 0221	 0222	 0223	 0224	 0225	 0226	 0227	 0228
 0229	 0230	 0231	 0232	0233	0234	0235	0236	0237	0238	0239	0240
0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252
0253	0254	0255	9451-1019	9060-1001	0258	0259	0260	0261	0262	0263	0264
0265	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276
0277	0278	0279	0280	0281	0282	0283	0284	0285	0286	0287	0288
0289	0290	0291	0292	0293	0294	0295	0296	0297	0298	0299	0300
0301	0302	0303	0304	9060-1001	0305	0306	0307	0308	0309	0310	0311
0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323
0324											

BLUEWATER ENTERPRISES

SMART SWITCH FLOW CHART

IS THE SWITCH BLINKING?

YES → WHAT COLOR?

NO → Check wiring size.

WHAT COLOR?

PURPLE

A slow PURPLE blink on a 9060 Series switch indicates Over Current. Press RESET.

Check amp setting. If excess of 20 amps, add load relay to output circuit of switch with an external circuit breaker.

Potentially faulty device.

WHITE

WHAT DEVICE?

TROUBLESHOOTING PARTS

Capacitor

1406-000-001

Choke

1400-000-001

Diode

1405-300-001

WASHDOWN PUMP →

Install an in-line choke (Part ID: 1400-000-001) in the wire between the switch output and the pump, as close to the pump as possible (above the waterline). This will suppress electrical noise and typically correct any pump or motor that repeatedly triggers an Over Current fault.
See Figure 1.

FRESHWATER PUMP →

Install an in-line choke (Part ID: 1400-000-001) in the wire between the switch output and the pump, as close to the pump as possible (above the waterline). This will suppress electrical noise and typically correct any pump or motor that repeatedly triggers an Over Current fault.
See Figure 1.

SEA CHEST PUMP →

Install a diode (Part ID: 1405-300-100) between the switch output and the device, with the cathode (grey part) facing the device.
See Figure 3.

BILGE PUMP →

Install a diode (Part ID: 1405-300-100) with the cathode facing the switch to prevent back-feeding from the 24-hour auto bilge circuit.
See Figure 2.

FIGURE 1

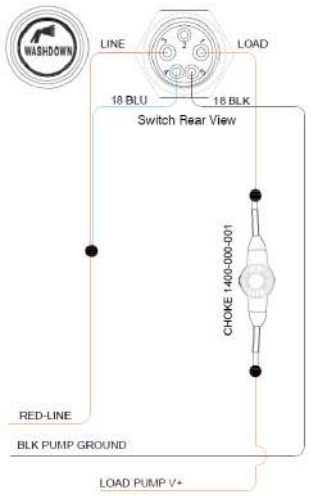


FIGURE 2

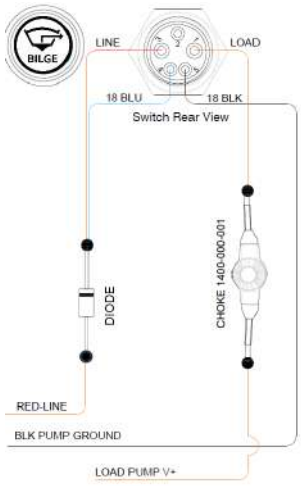
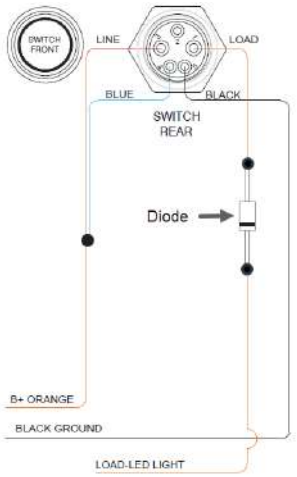


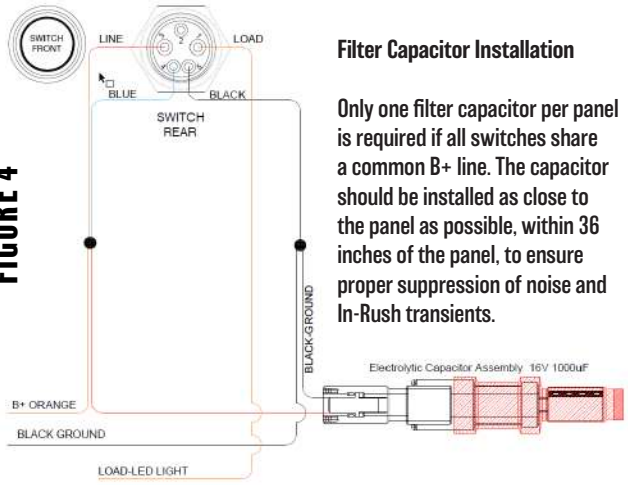
FIGURE 3



Bilge Pump Switch Installation

A diode is required on every bilge pump switch to prevent back-feeding and ensure proper operation. A choke is not typically necessary; however, if a choke is required, it should be installed as close to the pump as possible, above the waterline, to effectively suppress noise.

FIGURE 4



Filter Capacitor Installation

Only one filter capacitor per panel is required if all switches share a common B+ line. The capacitor should be installed as close to the panel as possible, within 36 inches of the panel, to ensure proper suppression of noise and In-Rush transients.

GARMIN/ MFDS

→ Install a diode (Part ID: 1405-300-100) between the switch output and the device, with the cathode (grey part) facing the device.
See Figure 3.

LED LIGHTS

→ Install a diode (Part ID: 1405-300-100) between the switch output and the device, with the cathode (grey part) facing the device.
See Figure 3.

→ STILL BLINKING → Install a 16V 1000uF electrolytic capacitor (Part ID: 1406-000-001) across Line B+ and Ground near the LED switch. This stabilizes voltage and prevents In-Rush or Over Current faults. Note that faults may not appear until after extended operation, when voltage drops or temperature rises.
See Figure 4.

RELAY/ RELAY STYLE BATTERY SWITCH

→ Install a diode (Part ID: 1405-300-100) between the switch output and the device, with the cathode (grey part) facing the device.
See Figure 3.

→ STILL BLINKING → Install a 16V 1000uF electrolytic capacitor (Part ID: 1406-000-001) across Line B+ and Ground near the switch. This stabilizes voltage and corrects the issue creating the fault.
See Figure 4.

EVACUATION BLOWER/FAN

→ Install a diode (Part ID: 1405-300-100) between the switch output and the device, with the cathode (grey part) facing the device.
See Figure 3.

→ STILL BLINKING → Install a 16V 1000uF electrolytic capacitor (Part ID: 1406-000-001) across Line B+ and Ground near the switch. This stabilizes voltage and corrects the issue creating the fault.
See Figure 4.