

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 visibility. 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**




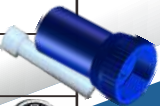

Specification

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 Minimum
Dielectric Strength	2,000 VAC
Operate Storage Temp	-20°C ~ +55°C
Travel	1.50mm
Moisture 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	2nd On	Rear Mark Page
		1st On	3rd On	
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

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

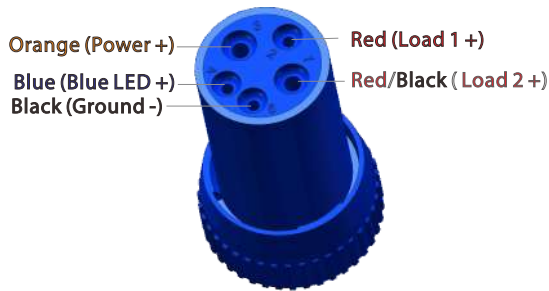
22mm Inrush Protection Switch

IP 69K 20Amp 120A Surge

WARNING

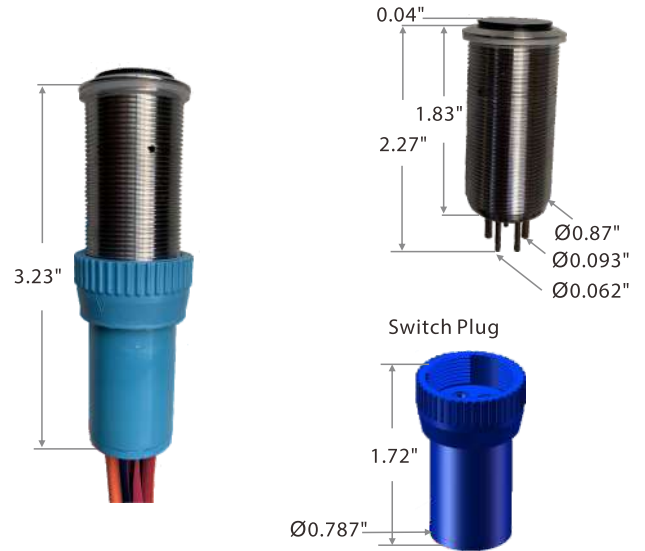
- ▶ Dummy plugs required in Bluewater DT connectors for all non-wired (empty) pin locations.
- ▶ Failure to include dummy plug in non-wired (empty) pin locations in Bluewater DT Connector voids water tight rating and warranty.
- ▶ See part number for dummy plugs on page one.
- ▶ Wire sizes must meet 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

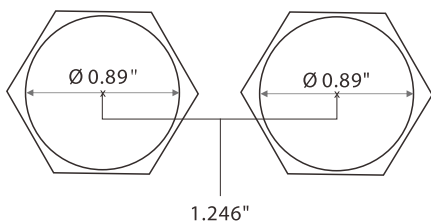


Black	16awg	Ground -
Blue	16awg	Blue LED +12Vdc
Red	14awg	Load1 +12Vdc
Orange	14awg	Power +12Vdc
Red/Black	14awg	Load2 +12Vdc

Size Diagram

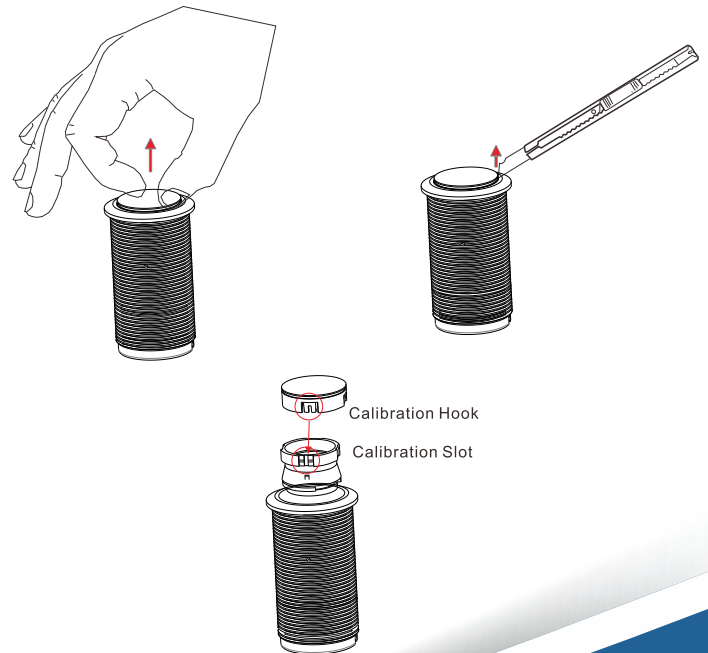


Mounting Hole



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

Replacing Actuator



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



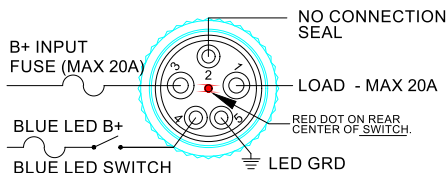
Laser Etched Actuator in **On Mode**
The Red LED lets you know that the device is on .



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

REAR PLUG VIEW

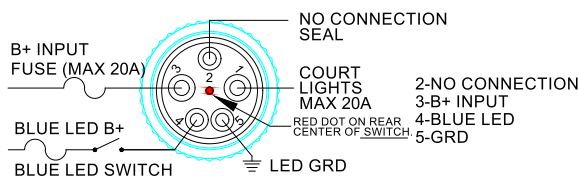
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS RED [LOAD 1 ON]
2ND PUSH - OFF



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



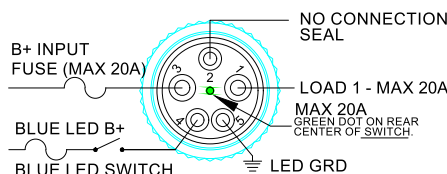
Laser Etched Actuator in **On Mode**
The Red LED lets you know that the device is on .



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

REAR PLUG VIEW

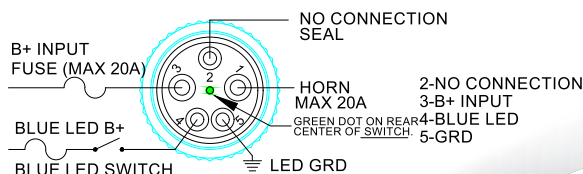
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF



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

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 **Nighttime Mode**
The Blue LED provides great visibility of the function switches and lets you know that the switches 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.



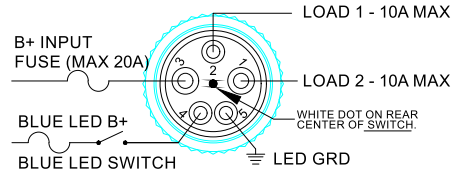
Laser Etched Actuator in **Anchor Mode**
The Red LED lets you know that the Anchor switch is on.



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

REAR PLUG VIEW

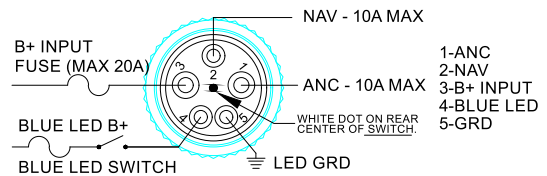
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS GREEN [BOTH 1 & 2 LOADS ON]
2ND PUSH - LIGHTS RED [ONLY LOAD 2 ON]
3RD PUSH - OFF



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 **Nighttime Mode**
The Blue LED provides great visibility of the function switches and lets you know that the switches 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.



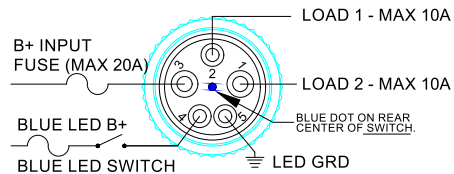
Laser Etched Actuator in **Load 2 Mode**
The Red LED lets you know that the Load 2 device is on position.



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

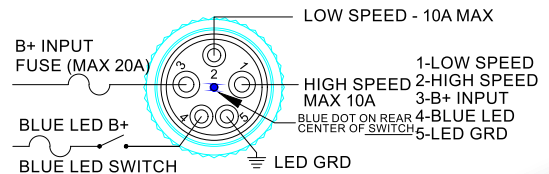
REAR PLUG VIEW

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

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)
- ▶ Press 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 Actuator in Nighttime Mode
The Blue LED provides great visibility of the function switches and lets you know that the switches 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 device is on position.



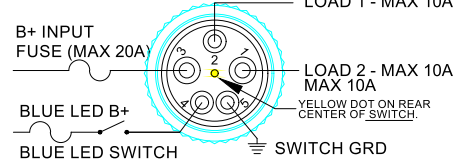
Laser Etched Actuator in Both Mode
The Yellow LED lets you know that the Load 1 & Load 2 devices are both on position.



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

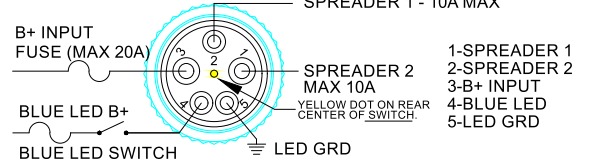
REAR PLUG VIEW

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



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



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

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)



Laser Etched Actuator in Daytime Mode
LED light is off.



Laser Etched Actuator in Nighttime Mode
The Blue LED provides great visibility of the function switches and lets you know that the switches 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.



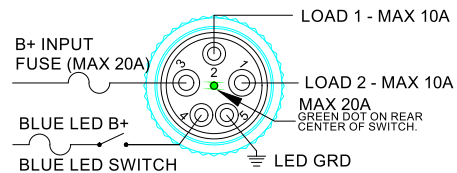
Laser Etched Actuator in Load 2 Mode
The Red LED lets you know that the Load 2 device is on position.



Laser Etched Actuator in Inrush Protection Mode
LED Flashing White.
Inrush Load Upto 120Amp, LED Flashing White, outputs do not function, 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



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

9059-2213 HORN Switch

OFF-[1 MOM 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 + !



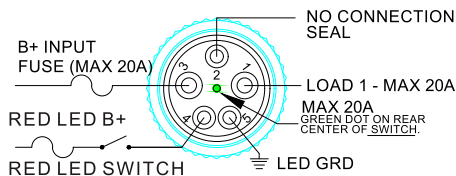
Laser Etched Actuator in **On Mode**
The Red LED keep Light on !



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

REAR PLUG VIEW

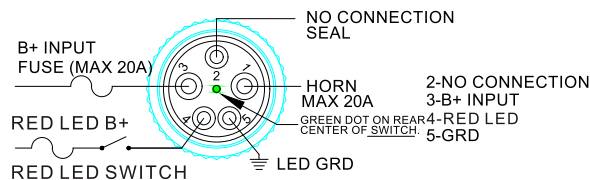
OFF CAN BE RED BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF (LED OFF OR KEEP LIGHTS RED)



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)

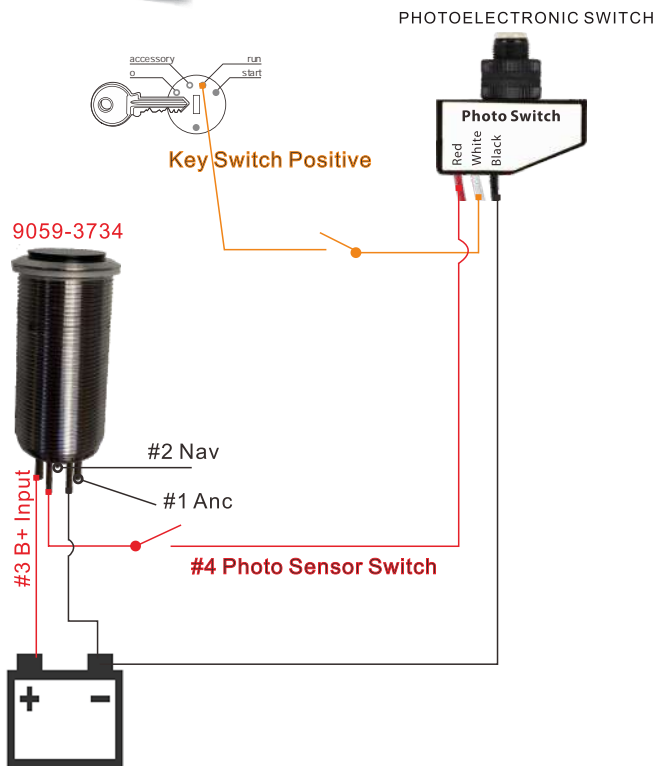


POS 1 & 3 ARE DEUTCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTCH DP [SMALL] FEM TERM

Wiring

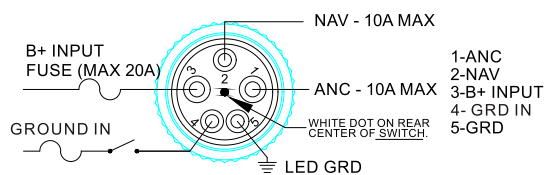
9059-3734 Auto Nav Switch

Nav/Anc w/ Photoelectric 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)



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

Operation

2. Nighttime

- (1) 9059- : Yellow (Auto Mode)
 - Turn on both Nav and Anc light automatically
 - 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
 - #4 +12 in or no input (Photo sensor not active)
9059 turn Blue , No output
 - #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

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

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 **Nighttime Mode**
The Blue LED provides great visibility of the function switches and lets you know that the switches 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.

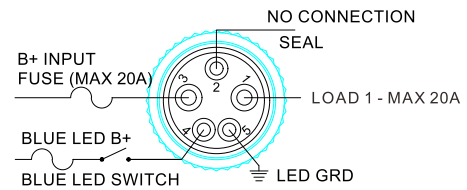
Press - turns ON the device, LED lights Red

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 back light



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 minutes , No Cycle !
- ▶ Press the button during 2 minutes timer on period will turn off the device .



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



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



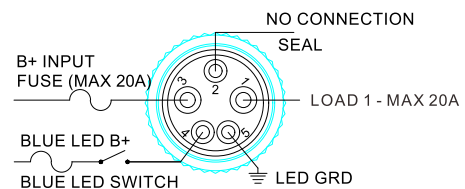
Laser Etched Actuator in **Timer On Mode**
The Red LED lets you know that the device is on . after 2 mins will turn off automatically

REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

Press - turns ON the device, LED lights Red and will automatically turn Off the device after 2 minutes, No Cycle!

Press the button during 2 minutes timer on period will turn off the device.

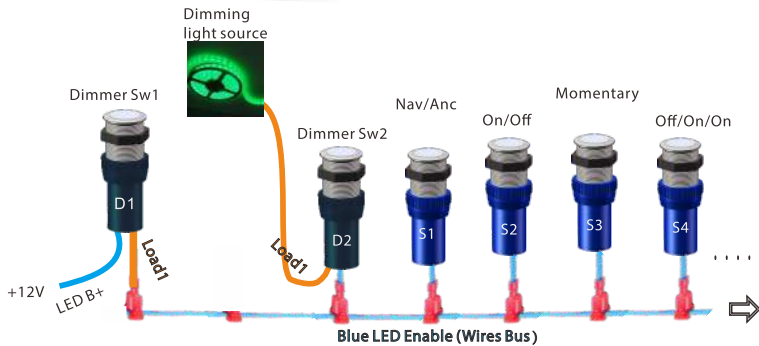


POS 1 & 3 ARE DEUTSCH DTP [LARGE] FEM TERM
POS 2, 4, 5 ARE DEUTSCH DP [SMALL] FEM TERM

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

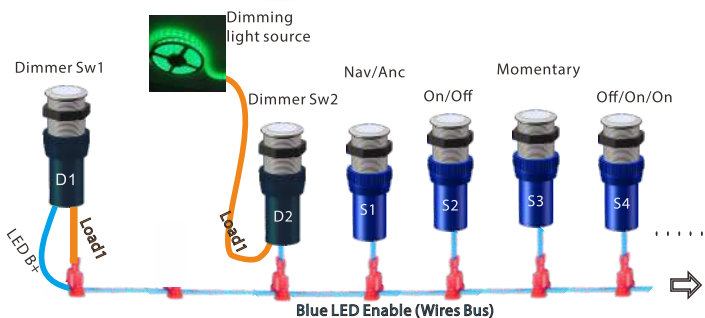
Dimmer Sw2 (D2) : **Lighting Dimmer Switch**

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)

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)

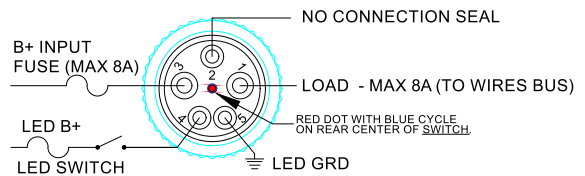
OFF CAN BE BLUE BACKLIT } - APPLY LED B+ TO TERM 4.
ON CAN BE RED LIGHT

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

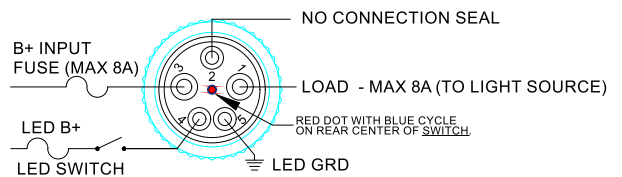
D1 IS OFF, D2 WILL BE NO LIGHT AT OFF NOR ON

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

REAR PLUG VIEW (D1)

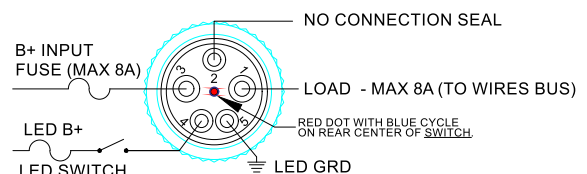
OFF **NO BLUE BACKLIT** } - APPLY LED B+ TO WIRES BUS
ON CAN BE RED LIGHT

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

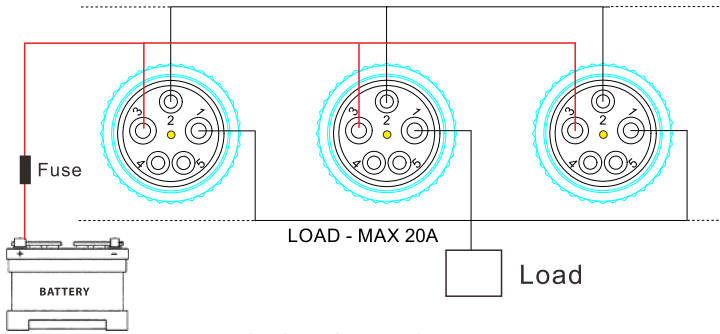
9059-5113 3-Way Inrush Switch

IP 69K 20Amp 600 feet

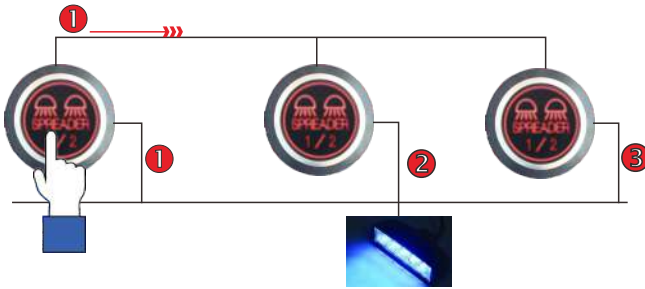
3-Way Switch System Diagram

WIRING DIAGRAM

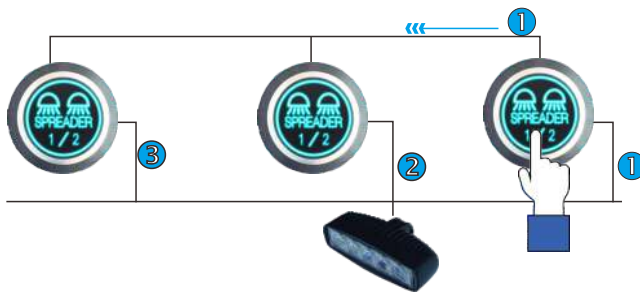
Ground and Blue LED B+ connections are not shown in these diagram
Synchronize Line (Max. 600 feet)



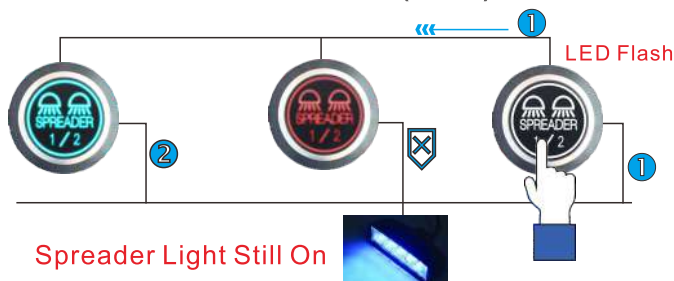
SYNCHRONIZE ON



SYNCHRONIZE OFF



SYNCHRONIZE OFF (FAULT)



Spreader Light Still On

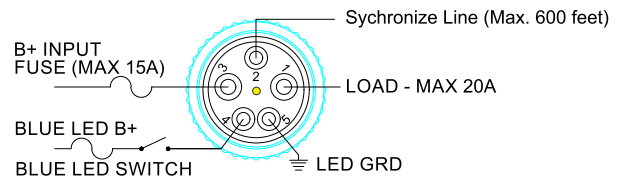
Features

- ▶ Turn On or Off from one switch among the network will Synchronize On or Off to the other switches.
- ▶ Synchronize Network up to 6 switches (300 feet max) .
- ▶ Synchronize 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 visibility. 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



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

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**



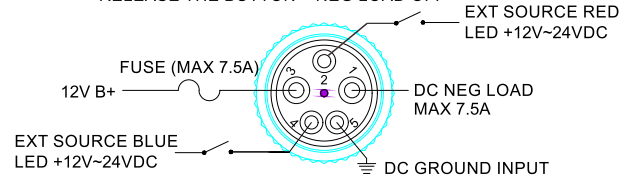
Pin #2 (Red LED+) from +12VDC to 24VDC, color turn to **Red**.



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**



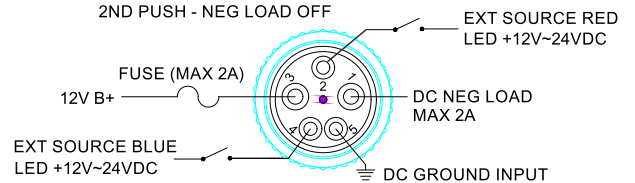
Pin #2 (Red LED+) from +3VDC to 24VDC, color turn to **Red**.



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



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



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



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



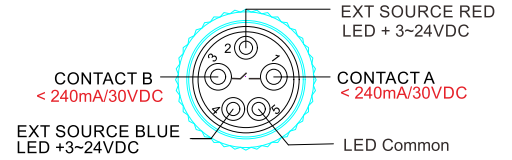
Pin #2 (Red LED+) from +3VDC to 24VDC, color turn to Red.



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

REAR PLUG VIEW

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



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)



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



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



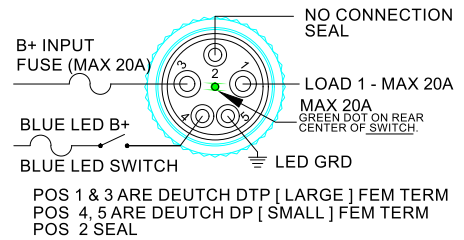
Laser Etched Actuator in **Daytime Mode**
LED light is off. Momentary Push



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.

REAR PLUG VIEW

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



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

LT BARS 0193	PORT BILGE 0194	STBD BILGE 0195	COURT/COURTESY 0196	MAIN LIVEWELL 0197	MAIN LIVEWELL RECIRC 0198	AFT BILGE 0199	FWD BILGE 0200	FLOOR LIVEWELL 0201	FLOOR LIVEWELL RECIRC 0202	RAW WATER PUMP 0203	FRESH WATER PUMP 0204	
FLOOR DISCHRG 0205	TUNA TUBE 0206	25 QT BAITWELL 0207	SPARE 0208	NAV/ANC 0209	DOWN LIGHTS 0210	BOX LIGHTS 0211	LIVEWELL LIGHTS 0212	FWD SPREADER LIGHTS 0213	AFT SPREADER LIGHTS 0214	PORT SPREADER LIGHTS 0215	STBD SPREADER LIGHTS 0216	
UNDER GUNNEL LIGHTS 0217	LIGHT BAR 0218	MODE 0219	WIPER WASH 0220	CENTER 0221	PERIMETER 0222	RED/WHT 0223	RED LIGHTS 0224	ACCENT LIGHTS 0225	ACCENT LIGHTS COLOR 0226	UNDER WATER LIGHTS 0227	UNDRWTR LIGHTS COLOR 0228	
FWD SPREADER LIGHTS 0229	AFT SPREADER LIGHTS 0230	RAW WATER PUMP 0231	WINDSHLD OPEN 0232	WINDSHLD CLOSE 0233	VHF ANT UP 0234	VHF ANT DOWN 0235	COOLER IN 0236	COOLER OUT 0237	SUN SHADE EXTEND 0238	SUN SHADE RETRACT 0239	TABLE DOWN 0240	
PORT LIVEWELL PUMP1 0241	PORT LIVEWELL PUMP2 0242	STBD LIVEWELL PUMP1 0243	STBD LIVEWELL PUMP2 0244	SEAT AFT 0245	SEAT FWD 0246	FISH BOX MACERATOR PORT 0247	FISH BOX MACERATOR STBD 0248	BOW STORAGE MACERATOR 0249	PUSH TO TALK 0250	TABLE UP 0251		
MUTE 0253	MAST LIGHT 0254	ByPass 0255	HORN 9451-1019		9060-1001	ACCENT 0258	COLORS 0259	COURTESY 0260	ENGINES 0261	INTERIOR 0262	STORAGE 0263	LIVEWELL LIGHTS 0264
WATER FALL 0265	BALLAST FILL 0266	BALLAST EMPTY 0267	ARCH UP 0268	ARCH DOWN 0269	MOOD 0270	MASTER PWR 0271	INT RGB 0272	INT DIMMER 0273	EXT RGB 0274	EXT DIMMER 0275	COOLED CUP 0276	
LIVEWELL 3 0277	LIVEWELL 4 0278	LIVEWELL 5 0279	LIVEWELL 6 0280	MOT ANCH 0281	SPREADER SIDES 0282	NAV/ANC 0283	BAITWELL 1 0284	BAITWELL 2 0285	BAITWELL 3 0286	BAITWELL 4 0287	BAITWELL 5 0288	
BAITWELL 6 0289	MOTOR ANCH LT 0290	SIDE SPRDR LTS 0291	INT RGB 0292	FISHBOX 0293	RAW 0294	FRESH 0295	DECK 0296	SPREADER FWD 0297	SPREADER AFT 0298	LIGHT BAR 0299	WASHER 0300	
VENT INT/OUT 0301	WINDLESS UP/DOWN 0302	T-TOP 0303	15 20 7.5 5 0304	9060-1001	POWER 0305	NAV/ANC 0306	LWELL MNAUT 0307	RECIRC MNAUT 0308	INT LIGHTS BGT/DM 0309	HORN 0310	UP 0311	
DOWN 0312	ELECTRONICS 0313	LCKR 0314	1 min ON 2 min OFF 0315	0316	HOUSE 0317	START 0318	SHOWER 0319	WINDSHIELD VENT 4 0320	STOMP GRATE 0321	VHF (1) 0322	Ais 0323	
FLIR 0324												