

22mm Tri LED Electronic Switch

IP 69K 15Amp DT Connector

Part No.

Features

- ▶ One channel 15 Amp max. Electrical Rating.
- ▶ Two channels 7.5 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.
- ▶ 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

Specification

| | |
|----------------------------------|----------------------------|
| Illuminated | Blue , Green & Red LED |
| Voltage Rating | 12VDC ~ 24 VDC |
| Max. Current | 15 Amp |
| Mechanical Life | 50,000 Cycles |
| Electrical Life Contact | 10,000 Cycles |
| Resistance Insulation | 50 mΩ Maximum |
| Resistance | 1000mΩ Mimumum |
| 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 |

| Function | Parts No. | Off | 1st On | 2nd On | 3rd On | Rear Mark Page |
|----------------------------|-----------|-------------------------------------|-------------------------------------|--------|--------|----------------|
| Off-On | 9055-1113 | (Blue) | Red | X | X | 2 Red dot |
| Off -(On) | 9055-2113 | (Blue) | Red | X | X | 2 Green dot |
| Horn Switch Off -(On) | 9055-2213 | Red | (Blue) Red | X | X | 3 Brown dot |
| Ground Switch Off -(On) | 9055-2713 | None (Blue) (Red) (Purple) | None (Blue) (Red) (Purple) | X | X | 3 Purple dot |
| Nav/Anc | 9055-3114 | (Blue) | Green | Red | X | 4 White dot |
| Off-On-On | 9055-3113 | (Blue) | Green | Red | X | 4 Blue dot |
| Off-On-On-Both | 9055-3115 | (Blue) | Green | Red | Yellow | 5 Yellow dot |
| Off-(On)-(On) | 9055-2123 | (Blue) | Green | Red | X | 5 Green dot |
| Dimmer | 9055-3116 | (Blue) | Red | X | X | 6 Black dot |
| Switch Plug | 9053-3914 | 5 pin Deutsch Plug | | | | |

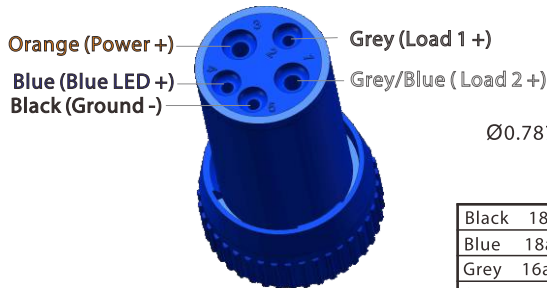
Replaceable Push Button Actuator



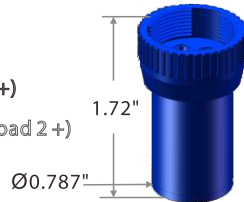
| Style | Parts No. |
|---------------------------------|---------------------|
| Full Translucent | 9451-1001 |
| SS Ring | 9451-1002 |
| SS Ring (Black) | 9451-1003 |
| SS Ring (Titanium) | 9451-1004 |
| Laser Logo(Blank) | 9451-1005 |
| Laser Logo(Cust) Custom Text | 9451-0001~ -0119 |

Standard Legend Imprinting Code : 7

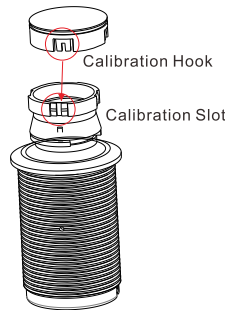
Recommended Wiring



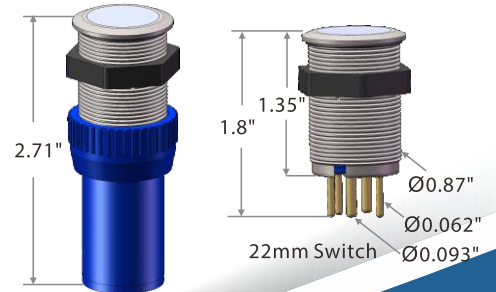
Switch Plug



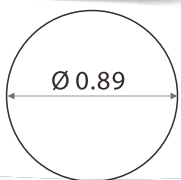
| | |
|-----------------|-----------------|
| Black 18awg | Ground - |
| Blue 18awg | Blue LED +12Vdc |
| Grey 16awg | Load1 +12Vdc |
| Orange 16awg | Power +12Vdc |
| Grey/Blue 16awg | Load2 +12Vdc |



Size Diagram



Mounting Hole



Warning !!

- ▶ Permanent Failure will occur if any power and ground leads are shorted together on the switch.
- ▶ Only use Bluewater DT connector, other connector will cause damage.

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

9055-1113

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 .



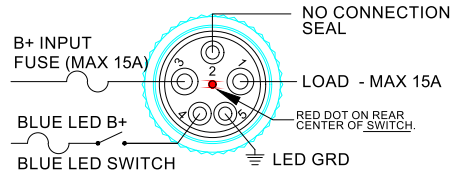
Laser Etched Actuator in **On Mode**
The Red LED lets you know that the device is on .

Dimming Instruction

- ▶ Press and hold the button for 5 seconds at off mode (Blue LED flash).
- ▶ Press the button to adjust the Blue Backlight level (3 levels)
- ▶ Wait for 3 seconds will set the light level automatically

REAR PLUG VIEW

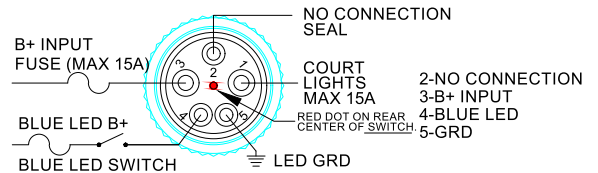
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS RED [LOAD 1 ON]
2ND PUSH - OFF



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

9055-2113

Off - (On)

OFF-[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 .



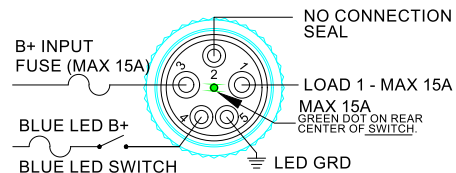
Laser Etched Actuator in **On Mode**
The Red LED lets you know that the device is on .

Dimming Instruction

- ▶ Press 6 times and hold the button for 5 seconds at off mode (Blue LED flash).
- ▶ Press the button to adjust the Blue Backlight level (3 levels)
- ▶ Wait for 3 seconds will set the light level automatically

REAR PLUG VIEW

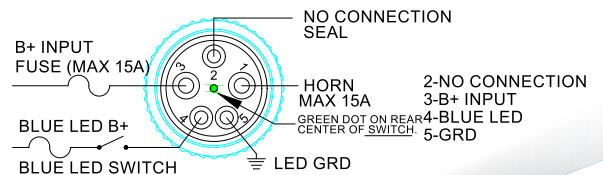
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF



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

9055-2213 Horn Switch

OFF-[1 MOM ON]=[OFF] RED/RED

Operation

- ▶ Press and hold the button to turns on the device (LED keep Red) .
- ▶ Release the button to turns off the device (LED Red no change)
- ▶ Pin #4 (Blue LED+) with +12V will override the Red color to Blue LED



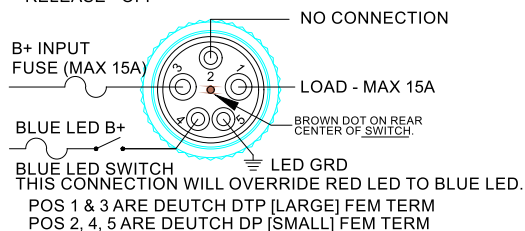
Laser Etched Actuator in **On Mode or Off Mode**
The Red LED always on.



Pin #4 (Blue LED+) with +12V will override
the Red color to **Blue LED** .

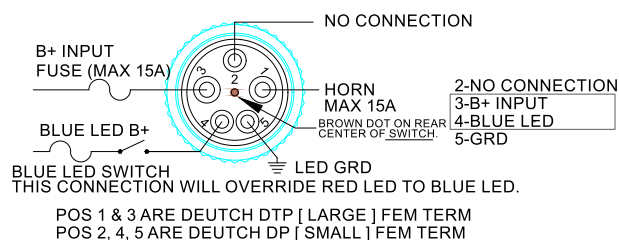
REAR PLUG VIEW

OFF RED BACKLIT .
MOM PUSH - LIGHTS RED [LOAD 1 MOM ON]
RELEASE - OFF



HORN EXAMPLE

1ST PUSH - LIGHTS RED [HORN MOM ON]
RELEASE - OFF



9055-2713 Ground Switch

OFF - MOM ON

Operation

- ▶ Press and hold the button to Send Ground Signal to Load - Pin 1 (LED no change).
- ▶ Release the button to cut off Ground Signal from Load - Pin 1 (LED no change)
- ▶ Pin #4 (Blue LED+) with +12V will turn LED to Blue color
- ▶ Pin #2 (Red LED+) with +12V will turn LED to Red color
- ▶ Pin #2 & Pin #4 with +12V will turn LED to Purple color



Laser Etched Actuator in **Daytime Mode & Pin 2 /4**
without +12V , The LED is Off.



Pin #4 (Blue LED+) with +12V LED color turn to **Blue**



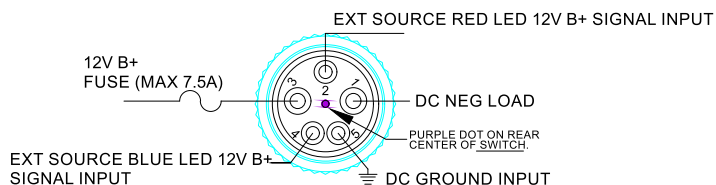
Pin #2 (Red LED+) with +12V LED color turn to **Red**.



Pin #2 & Pin #4 with +12V LED color turn to **Purple**.

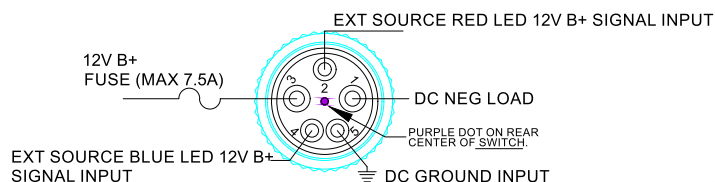
REAR PLUG VIEW

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



NEGATIVE SWITCHING REQUIREMENT

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



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

9055-3114 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.



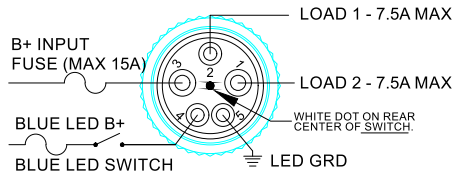
Laser Etched Actuator in **Anchor Mode**
The Red LED lets you know that the Anchor switch is on.

Dimming Instruction

- ▶ Press and hold the button for 5 seconds at off mode (Blue LED flash).
- ▶ Press the button to adjust the Blue Backlight level (3 levels)
- ▶ Wait for 3 seconds will set the light level automatically

REAR PLUG VIEW

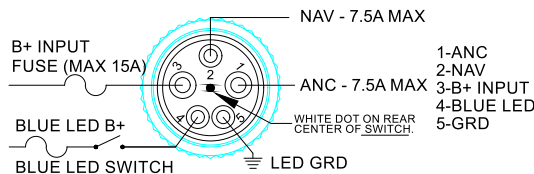
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.
1ST PUSH - LIGHTS GREEN [BOTH 1 & 2 LOADS ON]
2ND PUSH - LIGHTS RED [ONLY LOAD 2 ON]
3RD PUSH - OFF



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

9055-3113 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.



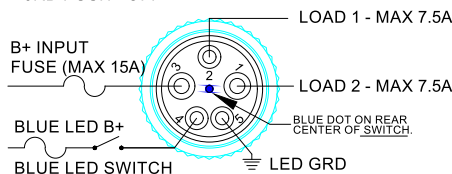
Laser Etched Actuator in **Load 2 Mode**
The Red LED lets you know that the Load 2 device is in on position.

Dimming Instruction

- ▶ Press and hold the button for 5 seconds at off mode (Blue LED flash).
- ▶ Press the button to adjust the Blue Backlight level (3 levels)
- ▶ Wait for 3 seconds will set the light level automatically

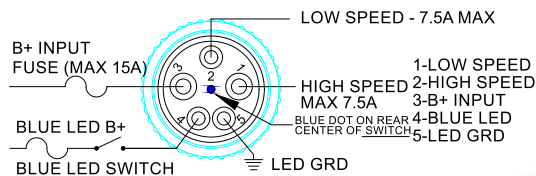
REAR PLUG VIEW

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

9055-3115 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 in on position.



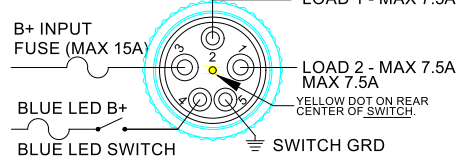
Laser Etched Actuator in **Both Mode**
The Yellow LED lets you know that the Load 1 & Load 2 devices are both on position.

Dimming Instruction

- ▶ Press and hold the button for 5 seconds at off mode (Blue LED flash).
- ▶ Press the button to adjust the Blue Backlight level (3 levels)
- ▶ Wait for 3 seconds will set the light level automatically

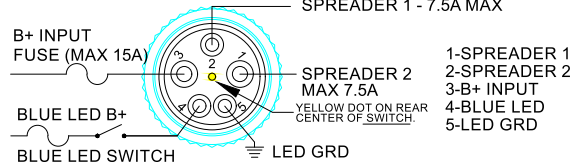
REAR PLUG VIEW

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 7.5A



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, LIVEWELL 1 OFF]
3RD PUSH LIGHTS YELLOW [LIVEWELL 1 & 2 ON]
SPREADER 1 - 7.5A MAX



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

9055-2123 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.



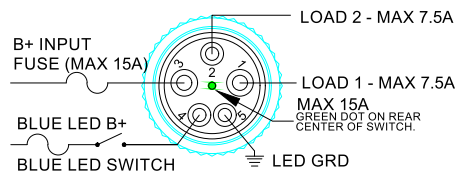
Laser Etched Actuator in **Load 2 Mode**
The Red LED lets you know that the Load 2 device is in on position.

Dimming Instruction

- ▶ Press 6 times and hold the button for 5 seconds at off mode (Blue LED flash).
- ▶ Press the button to adjust the Blue Backlight level (3 levels)
- ▶ Wait for 3 seconds will set the light level automatically

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

9057-3116 BackLit /DIMMER Switch

Backlit Switch / Dimmer Switch

Backlit Switch

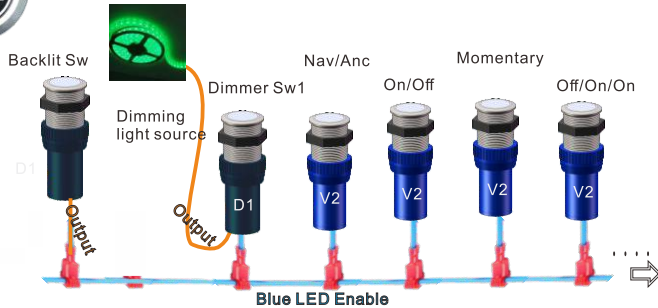


▶ Press turns on all switches' backlit (LED turns Red) .



▶ Press and Hold Dimming up/down all switches' backlit

▶ Press turns off all switches' backlit (LED turns Blue or None)



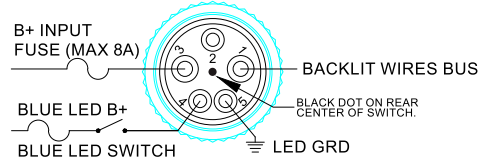
BACKLIT SWITCH REAR PLUG VIEW

ON CAN BE DIMMING ALL OTHER SWITCHES' BACKLIT THROUGH THE BACKLIT WIRES BUS - APPLY B+ TO TERM 1.

1ST PUSH - LIGHTS RED [ALL OTHER SWITCHES BACKLIT ON]

2ND PUSH AND HOLD - DIMMING UP & DOWN ALL OTHER SW BACKLIT

3RD PUSH - TURN OFF ALL SWITCHES' BACKLIT



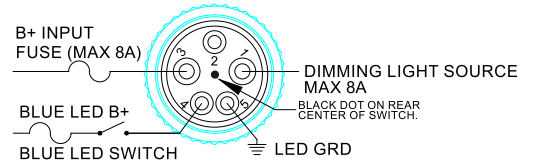
DIMMER SWITCH REAR PLUG VIEW

ON CAN BE DIMMING LIGHT SOURCE - APPLY B+ TO 1.

1ST PUSH - TURN ON LIGHT SOURCE [RED LED ON]

2ND PUSH AND HOLD - DIMMING UP/DOWN LIGHT SOURCE [RED]

3RD PUSH - TURN OFF LIGHT SOURCE



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

Dimmer Switch



▶ Press turns on light source (LED turns Red) .



▶ Press and Hold Dimming up/down light source (Red)

▶ Press turns off light source (LED turns Blue)

9451-0001 ~0119 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 | |