

## 22mm Inrush Protection Switch

IP 69K 20Amp 120A Surge







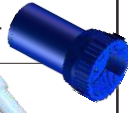

### Features

- ▶ 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	<b>Ultra Bright LEDs</b> 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 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
<b>Construction Material</b>	
Body Material	Stainless Steel SS316
Lens Material	PC material rated to 105°C
Switch Plug & Dongle	Nylon 6 rated to 105°C
<b>Deutsch Recommended Part#</b>	
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 
BW DT Connector	9053-3914	5 pin Deutsch Connector 		
Dummy Plug	114017-ZZ	for DT Connector 		

### 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 (Red)	9451-1019 
Laser Logo(Cust) Custom Text	9451-0001~ -0188 

Standard Legend Imprinting Code: 6

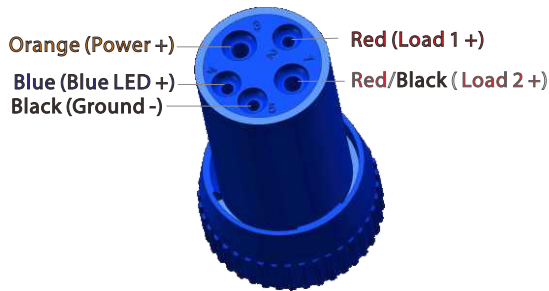
## 22mm Inrush Protection Switch

IP 69K 20Amp 120A Surge

### WARNING

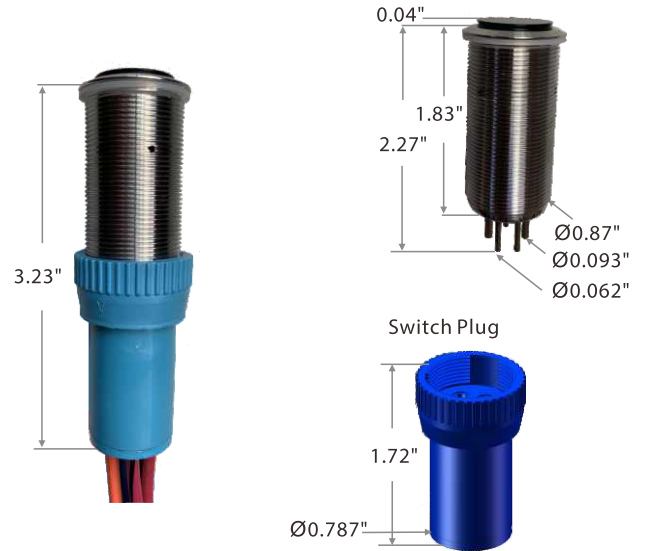
- ▶ Dummy plugs required in Bluewater DT connectors for all non-wired (empty) pin locations.
- ▶ Failure to include dummy plug in non-wired (empty) pin locations in Bluewater DT Connector voids water tight rating and warranty.
- ▶ See part number for dummy plugs on page one.
- ▶ Wire sizes must meet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

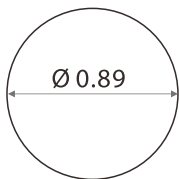


Black	16awg	Ground -
Blue	16awg	Blue LED +12Vdc
Red	14awg	Load1 +12Vdc
Orange	14awg	Power +12Vdc
Red/Black	14awg	Load2 +12Vdc

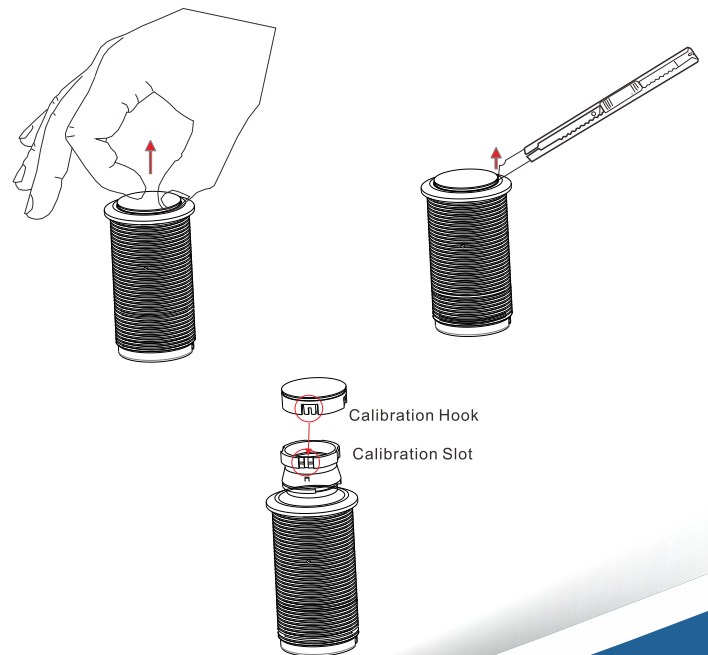
### Size Diagram



### Mounting Hole



### 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 switches are in off position .



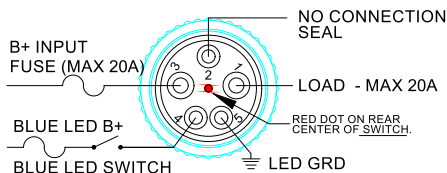
Laser Etched Actuator in **On Mode**  
The Red LED lets you know that the device is on .



Laser Etched Actuator in **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

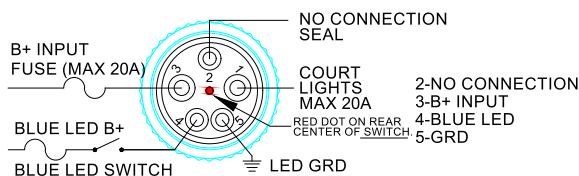
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.  
1ST PUSH - LIGHTS RED [ LOAD 1 ON ]  
2ND PUSH - OFF



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 switches are in off position .



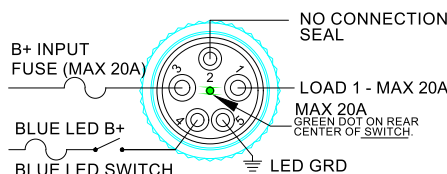
Laser Etched Actuator in **On Mode**  
The Red LED lets you know that the device is on .



Laser Etched Actuator in **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

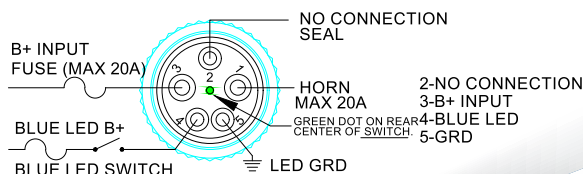
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.  
MOM PUSH - LIGHTS RED [ LOAD 1 MOM ON ]  
RELEASE - OFF



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.



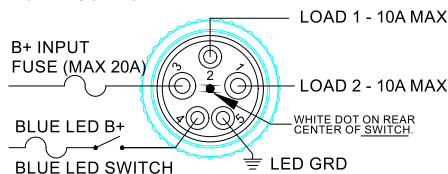
Laser Etched Actuator in **Anchor Mode**  
The Red LED lets you know that the Anchor switch is on.



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

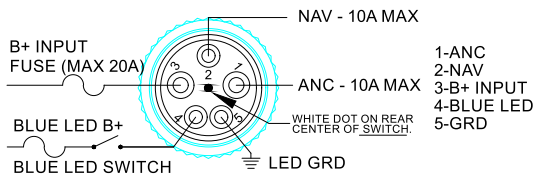
OFF CAN BE BLUE BACKLIT - APPLY B+ TO TERM 4.  
1ST PUSH - LIGHTS GREEN [ BOTH 1 & 2 LOADS ON ]  
2ND PUSH - LIGHTS RED [ ONLY LOAD 2 ON ]  
3RD PUSH - OFF



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.



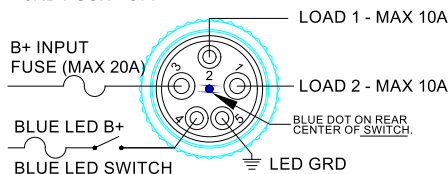
Laser Etched Actuator in **Load 2 Mode**  
The Red LED lets you know that the Load 2 device is on position.



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.

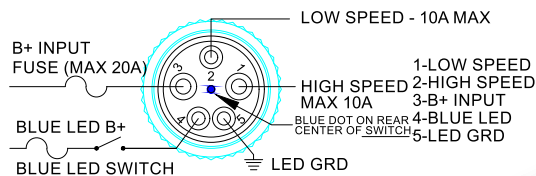
### REAR PLUG VIEW

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.



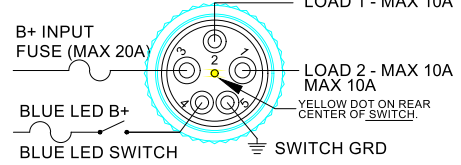
**Laser Etched Actuator in Both Mode**  
The Yellow LED lets you know that the Load 1 & Load 2 devices are both on position.



**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.

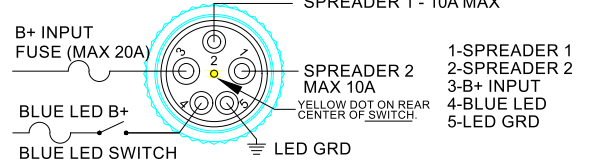
### REAR PLUG VIEW

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.



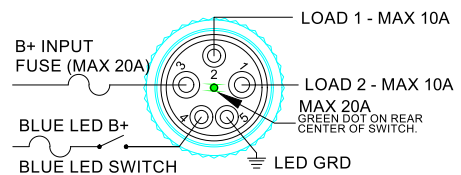
**Laser Etched Actuator in Load 2 Mode**  
The Red LED lets you know that the Load 2 device is on position.



**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

## 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