

Features

- Electrical Rating 2 x 10A/Channl, 20A max. rating.
- ▶ Double pushbuttons for controlling two outputs or Up and Down control.
- ► Inrush Protection, our switch hold 120Amp Inrush for 120us before fault mode trips!
- ► Stainless Steel SS316 Body and IP69K Waterproof Rating.
- ▶ Protection from Salt Spray (Fog) Test (EN ISO 9227-17).
- ▶ 20g Bump Shock Test Approved.
- ➤ Switch meet Flammability Rating UL 94 V2 and All material will be non-flammable or will be 105°C spec.

Specification

Illuminated	Blue,Green,Red,Yellow, Purple , White LED			
Voltage Rating	9VDC ~ 24 VDC			
Current Rating	20A 12VDC, 80A Surge (200 ms)			
Reverse Polarity Protection				
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	1000 MΩ 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.

N/O: Normally Open N/C: Normally Close 2 Outputs Function	Power On	Press & Hold	Press	₽ P	Press & Hold 2 buttons
9059-7002 1. N/O (ON) 2. N/O (ON)	○				
9059-7004 1. N/C (OFF) 2. N/C (OFF)	- <u>Q</u> -				
9059-7006 1. N/C (ON) 2. N/O (OFF)					
9059-7009 1. N/O - On/Off 2. N/O - On/Off	Q				
9059-7012 1. N/O - On/Off 2. N/C (OFF)				€	- Q - Q
9059-7013 1. N/O - On/Off 2. N/C (OFF)	○			€	○
9059-7014 1. N/O - On/Off 2. N/O - On/Off NAV/ANC	○			E.	O O
9059-7015 1. N/C - Dim Up 50%>100% 2. N/C - Dim Dn 50%> 5%	Restart pov	wer: light intensity Dim u			Activate or Top
DIMMER PWM		m up -70%	-0-	n Dn 70%>3	-30% 0%(5%)
9053-3914 BW DT Connector	5 pins Deutsch Connector				
9451-0800 Laser Actuators	Double-painted actuators in Black for Laser etching				
9451-1801 Translucent Actuators	Full translucent actuators				
114017-ZZ Dummy Plug	for DT Connector				

(1)

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2N1 Inrush Switch IP 69K / 2x10A CHAN

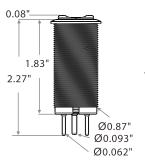
Recommended Wiring



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



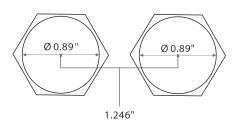
Size Diagram







Mounting Hole



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

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.

Installing Actuator

A recessed slot from the $top\ view\ of\ the\ switch (\underline{\textbf{Top}\ actuator})$ Red Mark



Flat surface from the rear of the **bottom** actuator

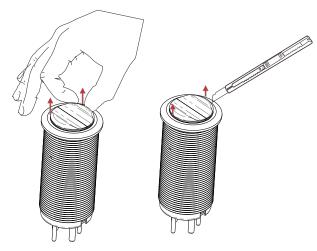
A raised ridge from the

rear of the top actuator

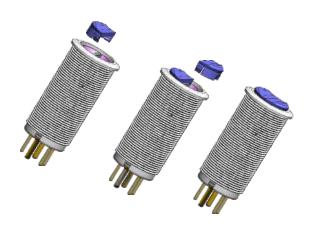




Replacing Actuator



Remove the actuator: lift up the actuator by finger or fine tool toward the edge of the actuator.



9059-7002 Double Momentary ON

2.N/O (ON)

Operation

- Press and hold the Top button to turns on the output 2 (LED lights Green).
- Press and hold the Bottom button to turns on the output 1 (LED lights Red)



- 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 switch's status.
- **Power ON:** Both outputs OFF, Both LEDs OFF.



- **Press and Hold Top Button** turn on output 2, Top LED lights Green.
- Release Top Button turn off output 2, Top LED lights OFF.



- **Press and Hold Bottom Button** turn on output 1, Bottom LED lights Red.
- Release Bottom Button turn off output 1, Bottom LED lights OFF.

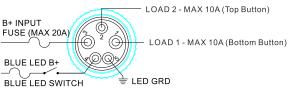


- **Press and Hold Both Buttons** turn on output 1 and output 2, Top LED lights Green and Bottom LED lights Red.
- Release Both Buttons turn off output 1 and output 2, Both LEDs OFF.

REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

TOP Button press and hold - Top LED lights Green (Load 2 ON) ${\tt BOTTOM\ Button\ press\ and\ hold\ -Bottom\ LED\ lights\ Red\ (Load\ 1\ ON)}$



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

9059-7004 Double Momentary OFF

Operation

Press and hold the Top button to turns off the output 2 (LED lights Green). Press and hold the Bottom button to turns off the output 1 (LED lights Red)



- 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 switch's status.
- Power ON: Both outputs ON, Both LEDs OFF.



- Press and Hold Top Button turn off output 2, Top LED lights Green.
- Release Top Button turn on output 2, Top LED lights OFF.



- Press and Hold Bottom Button turn off output 1, Bottom LED lights Red.
- Release Bottom Button turn on output 1, Bottom LED lights OFF.

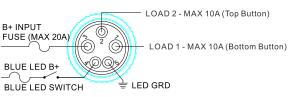


- **Press and Hold Both Buttons** turn off output 1 and output 2, Top LED lights Green and Bottom LED lights Red.
- Release Both Buttons turn on output 1 and output 2, Both LEDs OFF.

REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

TOP Button press and hold - Top LED lights Green (Load 2 OFF) BOTTOM Button press and hold - Bottom LED lights Red (Load 1 OFF)



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

9059-7006 Double Momentary ON/OFF

Operation

- Press and hold the Top button to turns off the output 2 (LED lights Green).
- Press and hold the Bottom button to turns on the output 1 (LED lights Red)



- 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 switch's status.
- Power ON: Output 2 ON, Output 1 OFF, Both LEDs OFF.



- **Press and hold the Top Button** turn off output 2, Top LED lights Green.
- Release Top Button output 2 ON, Top LED OFF.



- **Press and hold the Bottom Button** turn on output 1, Bottom LED lights Red.
- Release Bottom Button output 1 OFF, Bottom LED OFF.

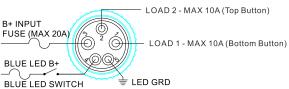


- **Press and hold Both Buttons** Output 2 turns off and Output 1 turns on, Top LED turns Green and Bottom LED lights Red.
- Release Both Buttons output 2 ON, output 1 OFF, Both LEDs OFF.

REAR PLUG VIEW

BLUE BACKLIT - APPLY B+ TO TERM 4.

TOP Button press and hold - Top LED lights Green (Load 2 OFF) ${\tt BOTTOM\ Button\ press\ and\ hold\ -Bottom\ LED\ lights\ Red\ (Load\ 1\ ON)}$



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

9059-7009 Double Latch ON 1. N/O : On-Off 2.N/O: On-Off

Operation

- Press the Top button to turns on the output 2 (LED lightns Green).
- Press the Bottom button to turns on the output 1 (LED lights Red)



- 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 switch's status.
- **Power ON:** Both outputs OFF, Both LEDs OFF.



- **Press the Top Button** turn on output 2, Top LED lights Green.
- **Release Top Button** output 2 keeps on, Top LED keeps Green.



- Press the Bottom Button turn on output 1, Bottom LED lights Red.
- Release Bottom Button output 1 keeps on, Bottom LED keeps Red.

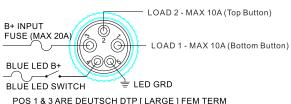


Both Buttons latch ON Both outputs ON, Top LED keeps Green and Bottom LED keeps Red.

REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

TOP Button Press - Top LED lights Green (Load 2 ON) BOTTOM Button Press - Bottom LED lights Red (Load 1 ON)



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

9059-7012 Latch On Momentary Off

1. N/O: On-Off 2.N/C (OFF

Operation

- ▶ Press the Top button to turns on the output 2 (LED lights Green).
- ▶ Press and hold the Bottom button to turns off the output 1 (LED lights Red)



- 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 switch's status.
- **Power ON:** Output 2 OFF, Output 1 ON, Both LEDs OFF.



- **Press the Top Button** turn on output 2, Top LED lights Green.
- ► Release Top Button output 2 keeps ON, Top LED keeps Green.



- ▶ **Press and hold the Bottom Button** turn off output 1, Bottom LED lights Red.
- Release Bottom Button output 1 ON, Bottom LED OFF.



- Press the Top Button again turn off output 2, Top LED OFF.
- ► Release Top Button output 2 keeps OFF, Top LED OFF.

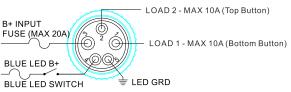


- Press and hold Both Buttons Output 2 turns off , Bottom LED lights Red.
- ► Release Bottom Button output 2 ON, Bottom LED OFF.

REAR PLUG VIEW

BLUE BACKLIT - APPLY B+ TO TERM 4.

TOP Button press $\,$ - Top LED lights Green (Load 2 ON) BOTTOM Button press and hold - Bottom LED lights Red (Load 1 OFF)



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

9059-7013 Latch ON/Interrupt OFF 1.N/O:On-Off 2.N/C (OFF) Interrupt

Operation

- ▶ Press the Top button to turns on the output 2 (Both LEDs lights Green).
- ► Press and hold the Bottom button to turns off both outputs (Top LED OFF, Bottom LED turns Red)



- 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 switch's status.
- **Power ON:** Output 2 ON, Both LEDs OFF.



- Press the Top Button turn on output 2, Both LEDs light Green.
- ► **Release Top Button** output 2 & 1 keep on, Both LEDs keep Green.



- Press the Top Button again turn off output 2, Both LEDs OFF.
- ► Release Top Button output 2 keeps off, Both LEDs OFF.



- ▶ **Press the Top Button again** turn on output 2, Both LEDs light Green.
- ► **Release Top Button** output 2 & 1 keep on, Both LEDs keep Green.



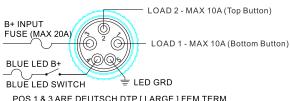
- Press and hold the Bottom Button turn off output 1 and output2, Bottom LED lights Red. Top LED OFF.
- ► Release Bottom Button output 1 ON, output 2 OFF, Both LEDs OFF.



REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

TOP Button Press - Both LEDs lights Green (Both Loads ON) BOTTOM Button press and hold - Bottom LED lights Red (Load 1 OFF)



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

We reserve the right to change specifications

9059-7014 Latch On-Off Nav/Anc

I/O: On-Off 2.N/O: On-C

Operation

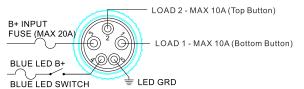
- Press the Top button to turns on both output 2 (Top LED lights Green, Bottom LED lights Red).
- ► Press the Bottom button to turns off output2 and turn on output1 (Top LED OFF, Bottom LED lights Red)



- 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.
- **Power ON:** Both outputs OFF, Both LEDs OFF.



- Press the Top Button turn on both output s, Top LED lights Green, Bottom LED lights Red.
- ► **Release Top Button** Both outputs keep ON, Top LED kees Green, Bottom LED keeps Red.



TOP Button Press - Turn ON both outputs, Top LED Green, Bottom LED Red

BOTTOM Button Press - Turn OFF output 2, Turn ON output 1.
Bottom LED lights Red, Top LED OFF

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

REAR PLUG VIEW

TOP Button Press and hold: Dim UP - 5% to 100%

BOTTOM Button press and hold - Dim Down - 100% to 5%

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

Sealed No Used

LOAD 1 - MAX 8A

 $\stackrel{
ightharpoonup}{=}$ LED GRD

BLUE BACK LIGHT - APPLY B+ TO TERM 4.

B+ INPUT FUSE (MAX 20A)

BLUE LED B+

BLUE LED SWITCH

REAR PLUG VIEW

BLUE BACK LIGHT - APPLY B+ TO TERM 4.



- ▶ **Press the Top Button again** turn off both outputs, Bottom LEDs OFF.
- ► Release Top Button both outputs keep OFF, Both LEDs keep OFF.



- Press the Bottom Button Output 2 turns off, Output 1 turns on, Bottom LED lightns Red.
- ► Release Bottom Button output 1 keeps ON, Bottom LED keeps Red.



- Press the Bottom Button again turn off both outputs, Bottom LEDs OFF.
- ► Release Bottom Button both outputs keep OFF, Both LEDs keep OFF.

9059-7015 Dimmer (PWM) Top button: Dim up, Bottom button: Dim Dr

Operation

- ▶ Press and hold the Top button to Dim Up the light level from 5% to 100%
- ▶ Press and hold the Bottom button to Dim Down the light level from 100% to 5%
- Restart Power: Light intensity level to the level of power off.



Power ON: Both LEDs light Red, output light level to the 50%



- ▶ **Press and hold the Top Button** Dim up the output light level, bottom LED lights Off
- ► **Release Top Button** To the light level (70%) while releasing the button. Top LED lights Red 50% -->70%(100%)



70%

Press both Buttons Turn off the output, Both LEDs Off.



70%

Activate: Press Bottom or Top Button to Activate the Dimmer Light
Will go to the light intensity level to the level of power off. 70%

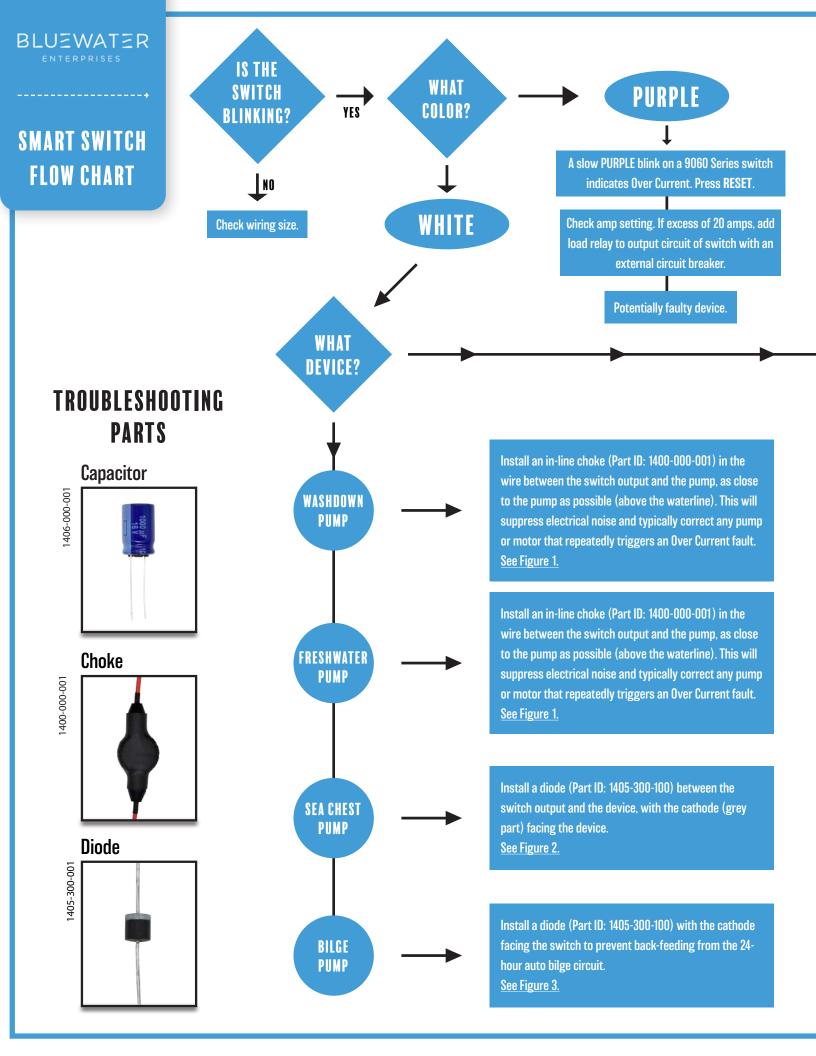


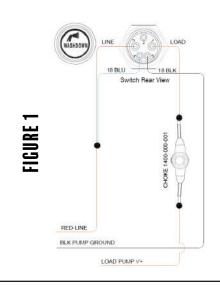
- Press and hold the Bottom Button Dim down the output light level, Top LED lights Off
 - **Release Bottom Button** To the light level (30%) while releasing the button. Bottom LED lights Red 70% --> 30% (5%)

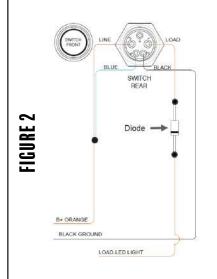


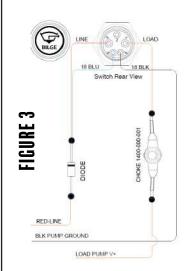


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Bilge Pump Switch Installation

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.

