

# NOR TIDE

## Pushbuttons Switches For the marine industry

### Performance series

PF19D/22D

By NorTide Marine

**Mount diameter:** 19mm – 22mm  
**Voltage rating:** 12VDC / 24VDC  
**Max Current:** 5A / 10A / 20A  
**Mechanical life:"** >100.000 cycles  
**LED life:** 40.000 hours  
**IP rating:** IP67  
**Operating temp:** -10°C --+ 45°C  
**Button travel:** 2.8mm  
**Contact material:** Silver  
**Actuator force:** 3-5N  
**Max panel thickness:** 1-10mm  
**Mounting nut torque:** 5-11Nm



### Body Material Optional



316 Stainless Steel



Black Anodised Aluminium

### LED Type Optional



RING



RING+Marine Logo



Special sticker



Customizable

### Switch Function

Item NO.	Fuction	Non Press	1st Press	2nd Press	3rd Press	Switch Rating	Feature
PF19D-20A PF22D-20A	OFF-ON	OFF	ON	OFF	ON	20A, 250VAC DC	Standard switch
PF19D-10 PF22D-10	OFF- ON	OFF	ON	OFF	ON	5A/ 10A/ 15A/ 20A, 250VAC DC	Overload protection
PF19D-20 PF22D-20	OFF- ON	OFF	ON	OFF	ON	20A, 12VDC	Bi-COLOR LED
PF19D-30 PF22D-30	OFF- ON-ON	ALL OFF	Load 1 ON Load 2 OFF	Load 1 OFF, Load 2 ON	ALL OFF	10A (5A/ Per Load), 12VDC	Two channel
PF19D-40 PF22D-40	OFF-ON-ON (NAV-ANC)	ALL OFF	Load 1 ON Load 2 ON	Load 1 OFF, Load 2 ON	ALL OFF	10A (5A/ Per Load), 12VDC	Two channel (NAV-ANC)

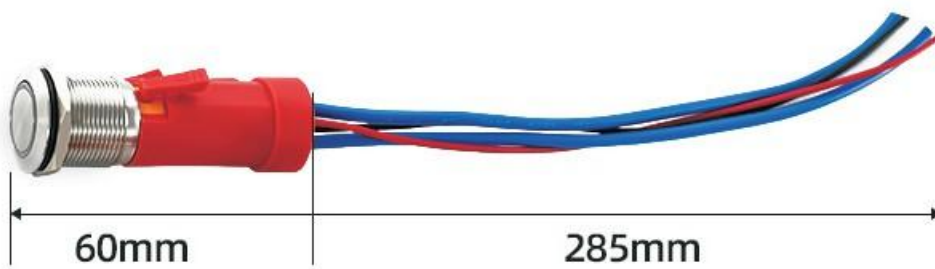
### Feature

- ◆ High current (20amp) push button switch;
- ◆ IP67 waterproof;
- ◆ 316L stainless steel body protection from Salt spray;
- ◆ Special harness and waterproof rings.

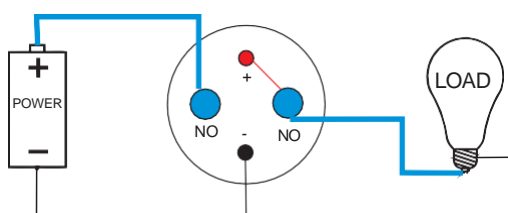
### Specification



Item NO.	PF19D-00-M	PF19D-00-L	PF22D-00-M	PF22D-00-L
Hole size	19MM(3/4")	19MM(3/4")	22mm ( 7/8" )	22mm ( 7/8" )
Operation	Momentary	Latching	Momentary	Latching
Switch Rating	20A/250VAC DC			
Body Material	316 Stainless Steel or Black Anodize Aluminium			
LED	TYPE	Ring,Power,Marine Logo series,Special sticker, Customizable.		
	Volt	3V,6V,12V,24V,		
	Color	RED,BLUE,GREEN,YELLOW,WHITE,BI-COLOR		
	Life	More than 40,000 hours		
Harness	Material	Flame retardant material		
	Wire Size& Color	22AWG (LED POWER,RED & BLACK) 16AWG (SWITCH NO-NO,BLUE)		
	Wire Length	ABOUT 28CM,Customizable		

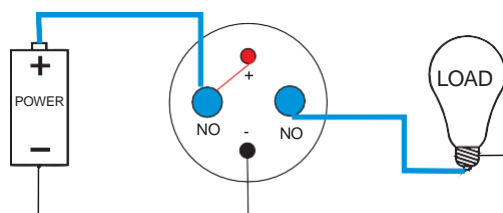


### Wiring



#### LED output indicator

Switch OFF                      Light OFF  
Pressing the pushbutton  
Switch ON                        Light ON



#### LED Always ON

Switch OFF                      Light ON  
Pressing the pushbutton  
Switch ON                        Light ON

**ON-OFF**

PF19D-10 / LA22D-10

## Overload Protection Push Button

### Feature

- ◆ Overload protection push button switch;
- ◆ 5A/10A/15A/20A switch rating
- ◆ 316L stainless steel body protection from Salt spray;
- ◆ IP67 Waterproof.



### Specification

Item NO.	PF19D-10/5A PF22D-10/5A	PF19D-10/10A PF22D-10/10A	PF19D-10/15A PF22D-10/15A	PF19D-10/20A PF22D-10/20A	
Switch Rating	5A,250VACDC	10A,250VACDC	15A,250VACDC	20A,250VACDC	
Base color	Orange	Red	Blue	Yellow	
Hole size	19MM(3/4") 22mm ( 7/8")	19MM(3/4") 22mm ( 7/8")	19MM(3/4") 22mm ( 7/8")	19MM(3/4") 22mm ( 7/8")	
Material	316 Stainless Steel (SS) or Black Anodize Aluminium (AB)				
	Body	PBT			
LED	Type	Ring,Power,Marine Logo series,Special sticker, Customizable.			
	Volt	12V,24V			
	Color	RED,BLUE,GREEN,YELLOW,WHITE,BI-COLOR			
	Life	More than 40,000 hours			
Wire	Switch NO	16 AWG,Brown wire(Fuse)			
	Switch NO	14awg,Red wire			
	LED +	22awg,Red wire			
	LED -	22awg,Black Wire			

### Function

SWITCH RATING	CURRENT * 1. 2	CURRENT * 1. 5	CURRENT * 2	When the current returns to normal, the heat dissipates
	Switch can run for a long time	Switch will be disconnected within 150(270) seconds	Switch will be disconnected within 5 seconds	
5A	6A	7.5A (270seconds)	10A	Switch automatically returns to normal operation.
10A	12A	15A	20A	
15A	18A	22.5	30A	
20A	24A	30A	34A	

## OFF-ON

PF19D-20 / PF22D-20

Bi-color Push Button Switch

### Feature

- ◆ Dual LED color (Bi-color) push button switch;
- ◆ 20A High current, IP67 Waterproof. ;
- ◆ Semi-mechanical push button switch, integrated circuit board;
- ◆ 316L stainless steel body protection from Salt spray;



### Specification

Item NO.	PF19D-20	PF22D-20	
Hole size	19MM(3/4")	22MM(7/8")	
Operation	Latching or Momentary	Latching or Momentary	
Switch Rating	20A/12VAC DC		
Material	Body: 316 Stainless Steel or Black Anodize Aluminium Base: PA66-GF15 Sealing Filler: Epoxy Resin		
LED	TYPE	Ring, Power, Marine Logo series, All-transparent ( For Sticker), Customizable.	
	Volt	12V DC	
	Color	Bi-Color: Green&Blue, Red&Blue, Red&Green etc. (customizable)	
	Life	More than 40,000 hours	
Wire	Red Wire (14AWG)	INPUT "+",	
	Blue Wire (14AWG)	OUTPUT "+"	
	Black Wire (18AWG)	Common "-"	
	Green Wire (18AWG)	INPUT "+", Control LED light on of off, when switch is OFF	

### Function

Wiring	Take the RED&BLUE LED Switch (LA19/22D-03RB) For example				
	STATE	When the Green wire connect to power "+"		When the Green wire disconnect to power "+"	
		Switch	LED	Switch	LED
	Non press	OFF	RED	OFF	NON
	1st press	ON	BLUE	ON	BLUE
2nd press	OFF	RED	OFF	NON	
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**ON-OFF-ON**

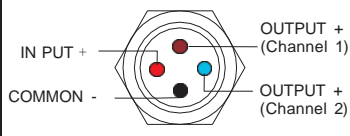
PF19D-30 / PF22D-30

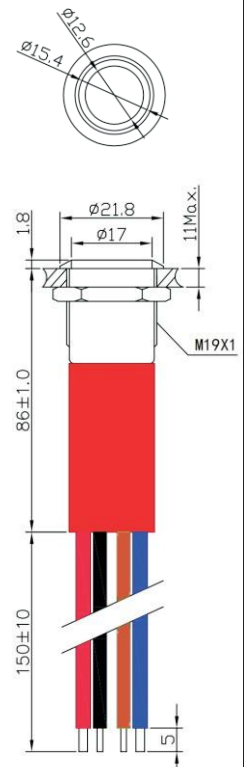
## Two Channel Push Butt

### Feature

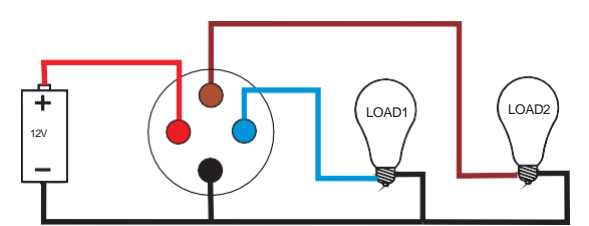
- ◆ Two channel / Dual output push button switch;
- ◆ 10A maximum current, each channel 5A. ;
- ◆ IP67 Waterproof;
- ◆ 316L stainless steel body protection from Salt spray;
- ◆ The color of the LED can be customized

### Specification

Item NO.	PF19D-30	PF22D-30	
Hole size	19MM(3/4")	22MM(7/8")	
Operation	1ST press, Load 1 on,Load 2 off; 2ND press, Load 2 on,Load 1off; 3RD press, Load 1& Load 2 all off . ...		
Switch Rating	10A/12VAC DC,each channel 5A		
Material	Body: 316 Stainless Steel or Black Anodize Aluminium Base: PA66-GF15 Sealing Filler: Epoxy Resin		
LED	TYPE	Ring,Power,Marine Logo series,All-transparent ( For Sticker), Customizable.	
	Volt	12V DC	
	Color	RED&BLUE (Other bi-color,tri-color ,Customizable)	
	Life	More than 40,000 hours	
Wire	Red Wire (16AWG)	INPUT "+",	
	Black Wire (16AWG)	Common "-"	
	Blue Wire (16AWG)	Channel 1 OUT PUT "+"	
	Brown Wire (16AWG)	Channel 2 OUT PUT "+"	



### Function

WIRING	LED color Customizable Take the PF19D-30GRB, PF19D-30NRB For example						
	MODEL	PF19D-30GRB			PF19D-30NRB		
	STATE	Load 1	Load 2	LED	Load 1	Load 2	LED
	Non press	OFF	OFF	Green	OFF	OFF	Non
	1st press	ON	OFF	Red	ON	OFF	Red
	2nd press	OFF	ON	Blue	OFF	ON	Blue
	3rd press	OFF	OFF	Green	OFF	OFF	Non
	...						

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## OFF-ON-ON

PF19D-40 / PF22D-40

NAV/ANC Push Button Switch

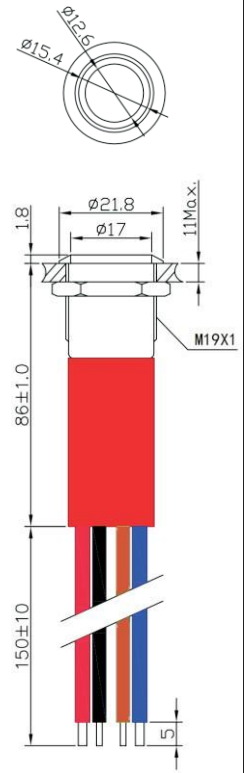
### Feature

- ◆ Two channel (NAV/ANC) push button switch;
- ◆ 10A current, each channel 5A. ;
- ◆ IP67 Waterproof;
- ◆ 316L stainless steel body protection from Salt spray;
- ◆ The color of the LED can be customized.

### Specification



Item NO.	PF19D-40	PF22D-40	
Hole size	19MM(3/4")	22MM(7/8")	
Operation	1ST press, Load 1 on, Load 2 on; 2ND press, Load 1 off, Load 2 on; 3RD press, Load 1 & Load 2 all off . ...		
Switch Rating	10A/12VAC DC, each channel 5A		
Material	Body: 316 Stainless Steel or Black Anodize Aluminium Base: PA66-GF15 Sealing Filler: Epoxy Resin		
LED	TYPE	Ring, Power, Marine Logo series, All-transparent ( For Sticker), Customizable.	
	Volt	12V DC	
	Color	RED & BLUE (Other bi-color, tri-color, Customizable)	
	Life	More than 40,000 hours	
Wire	Red Wire (16AWG)	INPUT "+",	
	Black Wire (16AWG)	Common "-"	
	Blue Wire (16AWG)	Channel 1 OUT PUT "+"	
	Brown Wire (16AWG)	Channel 2 OUT PUT "+"	



### Function

WIRING	LED color Customizable Take the PF19D-40GRB, LA19D-40NRB For example						
	MODEL	PF19D-40GRB			PF19D-40NRB		
	STATE	Load 1	Load 2	LED	Load 1	Load 2	LED
	Non press	OFF	OFF	Green	OFF	OFF	Non
	1st press	ON	ON	Red	ON	ON	Red
	2nd press	OFF	ON	Blue	OFF	ON	Blue
	3rd press ...	OFF	OFF	Green	OFF	OFF	Non

## OFF-ON

## PF19D-50

Backlit pushbutton with symbol

- ◆ High current (20amp) push button switch;
- ◆ IP65 waterproof;
- ◆ 304L stainless steel body protection from Salt spray;
- ◆ Special harness and waterproof rings.
- ◆ 50 different symbol stickers available
- ◆ LED color: Blue, Red, White

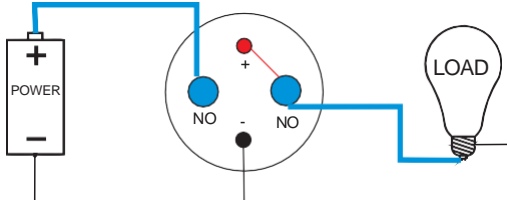


### Specification

Item NO.	PF19D-50-M	PF19D-50-L		
Hole size	19MM(3/4")	19MM(3/4")		
Operation	Momentary	Latching		
Switch Rating	20A/12VDC DC			
Body Material	304 Stainless Steel			
LED	TYPE	Ring,Power,Marine Logo series,Special sticker, Customizable.		
	Volt	12V		
	Color	RED,BLUE,WHITE		
	Life	More than 40,000 hours		
Harness	Material	Flame retardant material		
	Wire Size& Color	22AWG (LED POWER,RED & BLACK) 16AWG (SWITCH NO-NO,BLUE)		
	Wire Length	None		

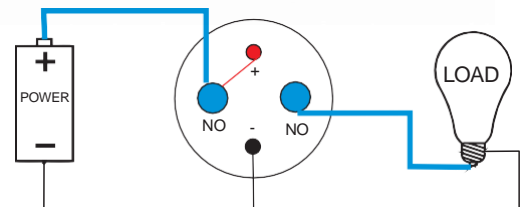


### Wiring



#### LED output indicator

Switch OFF                      Light OFF  
Pressing the pushbutton  
Switch ON                        Light ON



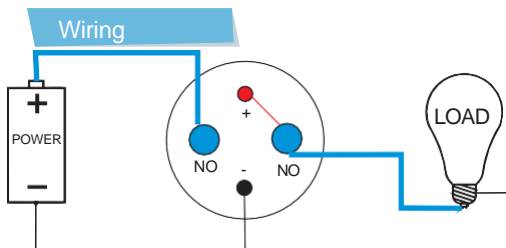
#### LED Always ON

Switch OFF                      Light ON  
Pressing the pushbutton  
Switch ON                        Light ON



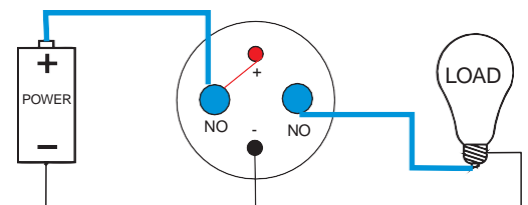
- ◆ High current (20amp) push button switch;
- ◆ IP67 waterproof;
- ◆ 316L stainless steel body protection from Salt spray;
- ◆ Special harness and waterproof rings.
- ◆ imbedded cable (60 cm cable length)
- ◆ LED color: Blue
- ◆ Max. panel thickness: 1mm - 8mm

Item	Specification	PF19D-60-M	PF19D-60-L		
Hole size		19MM(3/4")	19MM(3/4")		
Operation		Momentary	Latching		
Switch Rating		20A/12/24VDC			
Body Material		316 Stainless Steel			
LED	TYPE	Ring,Power,Marine Logo series,Special sticker, Customizable.			
	Volt	12V/24V			
	Color	BLUE			
	Life	More than 40,000 hours			
Harness	Material	Flame retardant material			
	Wire Size& Color	22AWG (LED POWER,RED & BLACK) 16AWG (SWITCH NO-NO,BLUE)			
	Wire Length	None			



#### LED output indicator

Switch OFF                      Light OFF  
 Pressing the pushbutton  
 Switch ON                        Light ON



#### LED Always ON

Switch OFF                        Light ON  
 Pressing the pushbutton  
 Switch ON                         Light ON



## Buzzer

PF19D-70

12V or 24V buzzer alarm

- ◆ High current (20amp) push button switch;
- ◆ IP50;
- ◆ 304L stainless steel body
- ◆ Special harness and waterproof rings.
- ◆ imbedded cable (60 cm cable length)
- ◆ LED color: RED
- ◆ Max. panel thickness: 1mm - 8mm



Item Specification		PF19D-60-M		
Hole size		19MM(3/4")		
Operation		<b>Intermittent beep (80 dB)</b>		
Current rating		<3A		
Body Material		304 Stainless Steel		
LED	TYPE	Intermittent beep		
	Volt	12V or 24V		
	Color	RED		
	Life	More than 40,000 hours		
Harness	Material	Flame retardant material		
	Wire Size& Color	None		
	Wire Length	None		

	PFxxD-20A	PFxxD-10	PFxxD-20	PFxxD-30	PFxxD-40	PFxxD-50	PFxxD-60	PFxxD-70
<b>19mm</b>	€20,00	€25,00	€20,00	€37,00	€37,00	19,00	23,00	35,00
<b>22mm</b>	€22,00	€27,00	€22,00	€39,00	€39,00	-	-	-

### Summary

PFxxD-00	Heavy duty pushbutton
PFxxD-10	Overload protection pushbutton switch
PFxxD-20	Pushbutton DUAL LED switch
PFxxD-30	Two channel pushbutton switch
PFxxD-40	NAV/ANC pushbutton switch
PFxxD-50	Backlit pushbutton switch
PFxxD-60	Stainless Steel pushbutton switch
PFxxD-70	12V or 24V buzzer alarm

### Need support?

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