



## MIL-C-8805/3 PUSH BUTTON SWITCHES

### TECHNICAL SPECIFICATIONS

<b>AC Rating:</b>	10 amps at 115 vac (Resistive load) 5 amps at 115 vac (Inductive load) 3 amps at 115 vac (Lamp load)
<b>DC Rating:</b>	10 amps at 28 vdc (Resistive load) 5 amps at 28 vdc (Inductive load) 3 amps at 28 vdc (Lamp load)
<b>Type 7 Contact Arrangement:</b>	Ratings are one half amperage
<b>Mechanical Life:</b>	500,000 cycles
<b>Action:</b>	Momentary snap of push-pull (as specified)
<b>Plunger Travel:</b>	.085 inch (approx.)
<b>Operating Force:</b>	
Ser. 20 & 30	3 to 5 pounds momentary 1/2 to 2 pounds push-pull
Ser. 22 & 32	2 to 3 pounds
<b>Weight</b>	050 pound maximum
<b>Case:</b>	Aluminum alloy. 2001 - T3, anodized in accordance with MIL-A-8625
<b>Plunger:</b>	Glass filled nylon
<b>Body:</b>	Diallyl phthalate in accordance with MIL-M-14
<b>Terminals:</b>	Threaded 2-56 NC-2B
<b>Terminal Hardware:</b>	Solder-type wire terminals, with terminal mounting screws and lockwashers, supplied with each switch.
<b>Mounting:</b>	Basic switch supplied with 1/2-32 UN-2B nut and internal tooth lockwasher. Switch with mounding adapter C,F,G or H supplied with 5/8-24 UNEF-2B nut and internal tooth lockwasher.
<b>Special:</b>	Additional types of mounting, button styles, colors, and other variations are available on special order.

Amphenol NEXUS Technologies manufactures a wide variety of push-pull and momentary switches for multiple markets and applications. Many of the switches can be incorporated with our connectors for customers have come to rely on our design capabilities and prefer the tactile feel of our quality switches.

In addition to the MIL-S-8805/3, or MS25089, switches, Amphenol NEXUS Technologies makes a number of custom switches to meet a wide variety of design needs.

Our switches are used in many military and commercial applications including:

- Military and Commercial Aircraft
- Avionics
- Ground Vehicles
- Naval Systems
- Ruggedized Communications systems
- Command Systems
- Soldier Systems
- Industrial Applications

### HYDRO-SWITCH:

Amphenol NEXUS Technologies now offers MIL-S-8805/3 type watertight switches that meet IP68 water submersion requirements. This new Hydro-Switch has the same mechanical and electrical properties of our NX300 series switches with the added bonus of being watertight. It can be used as a direct drop-in replacement for designs utilizing current Amphenol NEXUS Technologies' switches. The new Hydro-Switch has the same quality customers expect from an Amphenol NEXUS Technologies product.

# HOW TO ORDER:

Seven Step Process Example :

1.	2.	3.	4.	5.	6.	7.
Base Part Number	Switch Series	Contact Arrangement	Adapter Type	Adapter Color	Button Style	Button Color
NX	30	2	C	R	1	B

## 1. Base Part Number

NX	Standard Switch
NXW	Hydro-Switch **

## 2. Switch Series

20	Standard Momentary or push-pull switches
22	Standard switches with 2 lb operating force
30	Dustproof momentary or push-pull switches
32	Dustproof switches with 2 lb operating force

## 3. Contact Arrangements

1	SPNO: Single pole, normally open
2	SPNC: Single pole, normally closed
3	2-CIR: Two circuit
4	3-TNO: Three terminal, normally open
5	3-TNC: Three terminal, normally closed
6	SPDT: Single pole, double throw
7	DPST: Double pole, single throw, normally open

## 4. Adapter Type (See page 30)

O	Basic Switch ( no adapter )
A	MIL type A
B	MIL type B
C	MIL type C
E	MIL type E
F	MIL type F
G	MIL type G
H	MIL type H

## 5. Adapter Color

B	Standard color; black
R	Red
C	Clear metal ( aluminum )
O	Without Adapter

## 6. Button Style

1
2
3
5
6
8

## 7. Button Color

B	Standard color; black
R	Red
G	Gray
W	White
Y	Yellow

\*\* Hydro-Switch is only available in 300 Series Switches

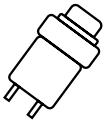
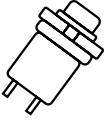
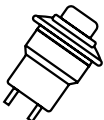
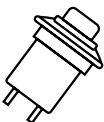
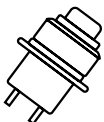
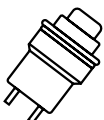
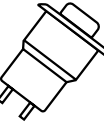
# PUSH BUTTON SWITCH CONTACT ARRANGEMENTS & BUTTON TYPES:

CONTACT ARRANGEMENTS						
<p>(1) SPNO</p> <p>Single Pole Normally Open</p>	<p>(2) SPNC</p> <p>Single Pole Normally Closed</p>	<p>(3) 2-CIRCUIT</p> <p>Can Be Jumpered For SPDT</p>	<p>(4) 3-TERMINAL</p> <p>Single Pole Normally Open</p>	<p>(5) 3-TERMINAL</p> <p>Single Pole Normally Closed</p>	<p>(6) SPDT</p> <p>Single Pole Double Throw</p>	<p>(7) DPST-NO</p> <p>Double Pole Single Throw Normally Open</p>
BUTTON STYLES						
<p>Switches Without Adapters: (See Note 1)</p>	<p>No. 1</p>	<p>No. 2</p>	<p>No. 3</p>	<p>No. 5</p>	<p>With Adapter</p>	<p>With Adapter No. 8</p>
<p>Switches With Adapters: (See Note 2)</p>						

1. **SWITCHES WITHOUT ADAPTERS:** The button height dimension shown for both Series 300 switches is taken from top of rubber boot to top of button. Button numbers 1, 3 (push-pull), and 5 is for the Series 300 dustproof switches. The only button available for series 200 switches is the number 2. The button height dimension shown is taken from the top of the housing to the top of the button.

2. **SWITCHES WITH ADAPTERS:** The button height dimension shown for both series of switches is taken from top adapter to top of button. Button numbers 1, 3 (push-pull), and 5 is for the Series 300 dustproof switches. Buttons 2, 6, and 8 are for the Series 200 standard switches.

# CONVERSION TABLE AND ADAPTER TYPE:

Mounting	Switch Action	Button Color	Contact 1	Contact 2	Contact 3	Contact 4	Contact 5
	Momentary	Black	MS25089-1A	MS25089-2A	MS25089-3A	MS25089-4A	MS25089-5A
			NX301AB1B	NX302AB1B	NX303AB1B	NX304AB1B	NX305AB1B
		Red	MS25089-1AR	MS25089-2AR	MS25089-3AR	MS25089-4AR	MS25089-5AR
			NX301AB1R	NX302AB1R	NX303AB1R	NX304AB1R	NX305AB1R
	Momentary	Black	MS25089-1B	MS25089-2B	MS25089-3B	MS25089-4B	MS25089-5B
			NX301BB1B	NX302BB1B	NX303BB1B	NX304BB1B	NX305BB1B
		Red	MS25089-1BR	MS25089-2BR	MS25089-3BR	MS25089-4BR	MS25089-5BR
			NX301BB1R	NX302BB1R	NX303BB1R	NX304BB1R	NX305BB1R
	Momentary	Black	MS25089-1C	MS25089-2C	MS25089-3C	MS25089-4C	MS25089-5C
			NX301CB1B	NX302CB1B	NX303CB1B	NX304CB1B	NX305CB1B
		Red	MS25089-1CR	MS25089-2CR	MS25089-3CR	MS25089-4CR	MS25089-5CR
			NX301CB1R	NX302CB1R	NX303CB1R	NX304CB1R	NX305CB1R
	Push-Pull	Black	MS25089-1C-1	MS25089-2C-1	MS25089-3C-1		
			NX301CB3B	NX302CB3B	NX303CB3B		
		Red	MS25089-1CR-1	MS25089-2CR-1	MS25089-3CR-1		
			NX301CB3R	NX302CB3R	NX303CB3R		
	Momentary	Black	MS25089-1E	MS25089-2E	MS25089-3E	MS25089-4E	MS25089-5E
			NX301EB1B	NX302EB1B	NX303EB1B	NX304EB1B	NX305EB1B
		Red	MS25089-1ER	MS25089-2ER	MS25089-3ER	MS25089-4ER	MS25089-5ER
			NX301EB1R	NX302EB1R	NX303EB1R	NX304EB1R	NX305EB1R
	Momentary	Black	MS25089-1F	MS25089-2F	MS25089-3F	MS25089-4F	MS25089-5F
			NX301FB1B	NX302FB1B	NX303FB1B	NX304FB1B	NX305FB1B
		Red	MS25089-1FR	MS25089-2FR	MS25089-3FR	MS25089-4FR	MS25089-5FR
			NX301FB1R	NX302FB1R	NX303FB1R	NX304FB1R	NX305FB1R
	Push-Pull	Black	MS25089-1F-1	MS25089-2F-1	MS25089-3F-1		
			NX301FB3B	NX302FB3B	NX303FB3B		
		Red	MS25089-1FR-1	MS25089-2FR-1	MS25089-3FR-1		
			NX301FB3R	NX302FB3R	NX303FB3R		
	Momentary	Black	MS25089-1G	MS25089-2G	MS25089-3G	MS25089-4G	MS25089-5G
			NX301GB1B	NX302GB1B	NX303GB1B	NX304GB1B	NX305GB1B
		Red	MS25089-1GR	MS25089-2GR	MS25089-3GR	MS25089-4GR	MS25089-5GR
			NX301GB1R	NX302GB1R	NX303GB1R	NX304GB1R	NX305GB1R
	Push-Pull	Black	MS25089-1G-1	MS25089-2G-1	MS25089-3G-1		
			NX301GB3B	NX302GB3B	NX303GB3B		
		Red	MS25089-1GR-1	MS25089-2GR-1	MS25089-3GR-1		
			NX301GB3R	NX302GB3R	NX303GB3R		
	Momentary	Black	MS25089-1H	MS25089-2H	MS25089-3H	MS25089-4H	MS25089-5H
			NX301HB1B	NX302HB1B	NX303HB1B	NX304HB1B	NX305HB1B
		Red	MS25089-1HR	MS25089-2HR	MS25089-3HR	MS25089-4HR	MS25089-5HR
			NX301HB1R	NX302HB1R	NX303HB1R	NX304HB1R	NX305HB1R
	Push-Pull	Black	MS25089-1H-1	MS25089-2H-1	MS25089-3H-1		
			NX301HB3B	NX302HB3B	NX303HB3B		
		Red	MS25089-1HR-1	MS25089-2HR-1	MS25089-3HR-1		
			NX301HB3R	NX302HB3R	NX303HB3R		