

Springer Controls offers a complete line of rugged, industrial grade pilot devices. We carry both the 22mm and 30mm (section H) oil-tight devices. See page G26 for complete, assembled push button stations.

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22MM (N5) PILOT DEVICES:

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FEATURES

Shape, Material and Colors



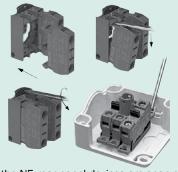
The N5 line offers two bezel types for operators:

- · round in chrome
- round in black thermoplastic (4x)

Modern ergonomic N5 actuators are available in a wide variety of styles and colors, and are the result of superior industrial design experience.

Series N5 satisfies any sophisticated industrial applications.

Fast Mounting



All the N5 rear panel devices are snap-on.

Mounting between panel and operator is accomplished by means of a patented snap-on flange which ensures a fast fitting.

For base mounting, the fitting is done directly on the adaptor inside the enclosures base.

Each single block can be mounted or removed individually.

In panel mounting, it is also possible to install or remove the snap-on mounting flange with the contact block group.

Blocks and/or flange can be disassembled by a standard screwdriver, to simplify operations.

Fitting and Positioning



All the N5 operators are fitted with seal to ensure IP66 N12 degree of protection.

A locating tab on the operator allows the correct positioning on panels.

The tab also ensures panel stability and prevents unwanted rotations.

The tab can be removed with a screwdriver for applications in holes without a notch.

Suitable for use in NEMA types 1, 3, 3R, 3S, 4, 4X, 12 and 13 enclosures.

Safety and Reliability



The N5 contact blocks are designed to ensure maximum reliability in every condition and to monitor control circuits at low energy levels (12V-5mA minimum), thanks to advanced solution such as:

- Four contact points
- High efficiency self-cleaning operation
- Silver contacts properly shaped
- High contact pressure
- · UL certified
- AC/DC Rating (page G22)

Mounting System



The N5 line offers a wide variety of operators, contact blocks and power supplies for panel mounting.

Furthermore, a range of operators, contact blocks and power supplies are available for base mounting.

The base mounting option is simple with our plastic enclosures fitted with a standard mounting adaptor, which allows a snap-on and secure fastening.

Rear Locking and Back Mounting Procedure



N5 operators are back mounted to the panel by a patented locking ring. The units can be assembled using a standard screwdriver.

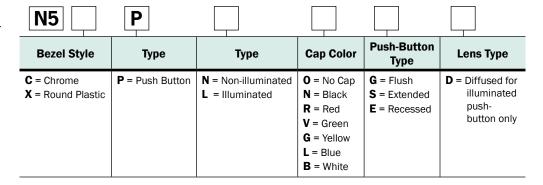
As an option, an assembly wrench is available. (N5ACWAF)



N5 CATALOG NUMBERING SYSTEM

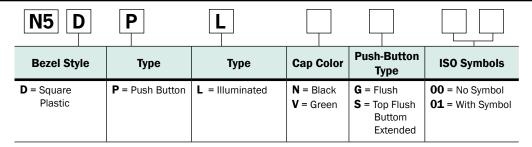
Standard & Illuminated Push-Buttons

Operators Page G6 & Page G14



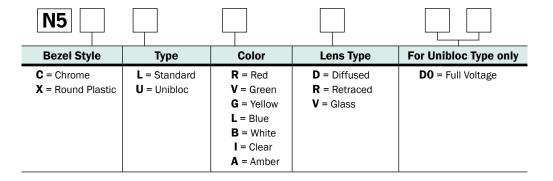
Double Function Push-Buttons

Page G13



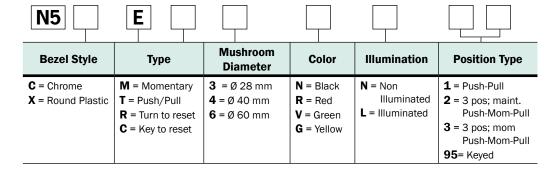
Pilot Lights

Page G7



Mushroom Head Push-Buttons

Page G6





N5 CATALOG NUMBERING SYSTEM

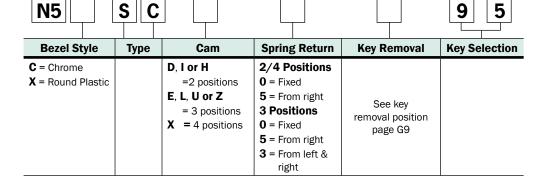
Knob & Lever Selector Switches

Pages G9, G10 & G12

N5	S				
Bezel Style	Туре	Туре	Cam	Spring Return	Color
C = Chrome X = Round Plastic		M = Knob V = Lever L = Illuminated Knob	D, I or H = 2 positions E, L, U or Z = 3 positions X = 4 positions Y or W = 5 positions	0 = Fixed 1 = From Left 3 = From Left & Right 5 = From Right	N = Black R = Red V = Green G = Yellow L = Blue

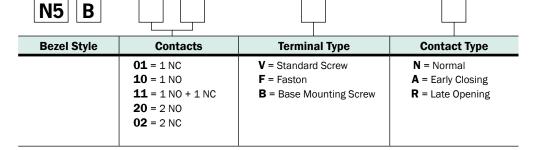
Key Selector Switches

Page G11



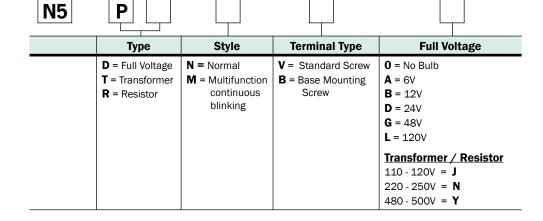
Contact Blocks

Page G5



Power Supplies

Page G5



G4



ASSEMBLY of 22mm PILOT DEVICES Contacts and Power Supplies

Complete Unit Assembly

22mm OPERATOR Pages G6 - G17

+

CONTACT BLOCK Page G5

or

POWER SUPPLY Page G5

or

OPTIONAL ACCESSORIES Pages G19 - G21

(Assembled Push Button Stations - pages G26 - G28)

Contact Blocks (For use with all Panel Mounted Operations)

Туре	Symbol	Screw Terminal Catalog No.	Quick Connect Terminal Catalog No.	Price
N.C.	010	N5B01VN	N5B01FN	\$11.50
N.O.	00	N5B10VN	N5B10FN	\$11.50
N.C. N.O.	00	N5B11VN	Not Available	\$23.00
N.C. Late Break	010	N5B01VR	Not Available	\$11.50
N.O. Early Make	00	N5B10VA	Not Available	\$11.50
N.O. N.O.	00	N5B20VN	Not Available	\$23.00
N.C. N.C.	010	N5B02VN	Not Available	\$23.00

Power Supplies; Includes bulb¹ (For use with all Panel Mounted Operations)





	Voltage	Screw Terminal Catalog No.	Quick Connect Terminal Catalog No.	Base Mt. Terminal Catalog No.	Price
	No Lamp	N5PDNV0	N5PDNF0	N5PDNB0	\$27.00
	6V	N5PDNVA	N5PDNFA	N5PDNBA	\$32.50
Full Valtage	12V	N5PDNVB	N5PDNFB	N5PDNBB	\$32.50
Full Voltage	24V	N5PDNVD	N5PDNFD	N5PDNBD	\$32.50
	48V	N5PDNVG	N5PDNFG	N5PDNBG	\$32.50
	120V	N5PDNVL	N5PDNFL	N5PDNBL	\$32.50
	120 - 6V	N5PTNVJ	N5PDNFJ	N5PDNBJ	\$66.00
Transformer	240 - 6V	N5PTNVN	N5PDNFN	N5PDNBN	\$66.00
	480 - 6V	N5PTNVY	N5PDNFY	N5PDNBY	\$66.00
Resistor	110 - 120V	N5PRNVJ	N5PDNFJ	N5PDNBJ	\$54.00
AC/DC	220 - 240V	N5PRNVN	N5PDNFN	N5PDNBN	\$54.00
Flashing Full Voltage	110v AC/DC BA9S 130V-2W	N5PDMVJ	N5PDNFJ	N5PDNBJ	\$79.00
Flashing Transformer	120 - 6V BA9S 6V - 6W 220/250V	N5PTMVJ	N5PDNFJ	N5PDNBJ	\$103.00

Notes:

1. To order LED bulbs, see page G7. LED bulbs are sold separately



PUSH BUTTONS (Operators only - add contacts on page G5)

Standard - Momentary



Operator (only)¹	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
With Flush Cap	N5CPN • G	N5XPN • G	\$13.00
With Extended Cap	N5CPN • S	N5XPN • S	\$13.00
Guarded Cap	N5CPN • E		\$13.00





Mushroom Head - Momentary



Operator (only)¹	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Mushroom Head 28mm	N5CEM3 • N	N5XEM3 • N	\$25.50
Mushroom Head 40mm	N5CEM4 • N	N5XEM4 • N	\$25.50
Mushroom Head 60mm	N5CEM6 • N	N5XEM6 • N	\$29.00
	(• See Color Table Below)		

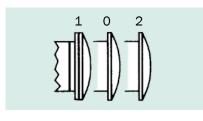
Mushroom Head - with Latch



Operato	r (only)¹	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Push-Pull 40mm	(2 pos. Maint.)	N5CET4 • N1	N5XET4 • N1	\$33.50
	Red 28mm	N5CER3RN	N5XER3RN	\$60.00
Twist Release	Red 40mm	N5CER4RN	N5XER4RN	\$60.00
	EN418 ²		N5XER4RAN	\$65.00
	EN418-IND ³		N5XER4RAW	\$70.00
Vey Deleges	Red 40mm	N5CEC4RN95	N5XEC4RN95	\$83.00
Key Release	EN418 ²		N5XER4RA95N	\$88.00

See page G26 for complete Emergency Stop Stations

Mushroom Head - 3 Position Push Pull



Operator (only)¹	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Maintained Push (0 to 1) Momentary Pull (0 to 2)	N5CET4 • N2	N5XET4 • N2	\$48.00
Momentary Push (0 to 1) Momentary Pull (0 to 2)	N5CET4 • N3	N5XET4 • N3	\$48.00
		(• See Cole	or Table Below)

COLOR TABLE - use complete catalog number when ordering. Replace the (ullet) with the suffix from the table below. Color **Black** Yellow Blue White Grey W/O cap w/Red,Blk/Green/Yellow Red Green **Brown** Caps N R G \mathbf{Z}^4 M В н 0 **Mushroom Heads** N ٧ G

Notes: 1 Contact Blocks not included; see page G5

- 2 Emergency Stop Operator; Complies with EN418 Machinery Safety Standard.
- 3 Emergency Stop Operator with status indication. EN418 approved
- $4\,$ When ordering operator with 4 color caps (Red, Black, Green & Yellow) add $\$3.00\,$



PILOT LIGHTS (Complete Unit = Operator + Power Supply)

Pilot Lights - Standard





Lens & Lamp Holder		Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Standard ¹	Diffused Lens	N5CL • D	N5XL • D	\$9.50
Stanuaru-	Glass Lens	N5CL • V		\$29.00
Unibloc Full Voltage (complete Pilot Light, Bulb not included)	Diffused Lens		N5XU • DD0	\$18.50
			(• See Color	Table Below)

Unibloc combines an indicator light and full voltage power in one unit. 250V maximum

Bulbs



	T			
Description	Volts Nominal	Watts Nominal	Catalog No.	Price
	6	0,6	N59S06	\$4.50
	6	1,5	N59S15	\$4.50
N59S	12	2	N59S12	\$4.50
	24	2	N59S24	\$4.50
Filament Type	30	2,1	N59S30	\$4.50
	48	2	N59S48	\$4.50
	60	1,2	N59S60	\$4.50
	130	2	N59S130	\$4.50



Description	volts Nominal		Price
	6	BA9S06L *	\$28.00
Multi-LED	12	BA9S12L *	\$28.00
	24	BA9S24L *	\$28.00
	48	BA9S48L *	\$28.00
	110	BA9S110L *	\$28.00
	230	BA9S230L *	\$28.00

ILLED O.L. T.L.	Red	Green	Yellow
* LED Color Table	R	V	G

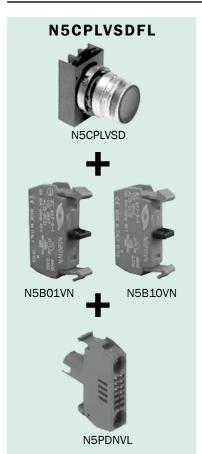
COLOR TABLE								
- use complete catalog number when ordering. Replace the $(ullet)$ with the suffix from the table below.								
Color	Red	Green	Yellow	Blue	White	Amber	Clear	
Color Code	R	V	G	L	В	A	ı	

Notes: 1 Lens & Lamp holder only; select Power Supply from page G5



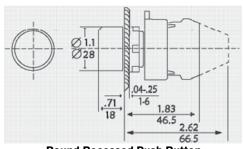
PRESS-TO-TEST PILOT LIGHTS (Complete Unit = Part number with competed suffixes)

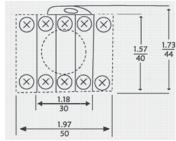
Press-To-Test Pilot Lights; includes power supply, contacts, and incandescent bulb



Operator	Chrome Bezel Catalog No.	4X Bezel Catalog No.	Price
Full Voltage	N5CPL • SDF *	N5XPL • SDF *	\$75
Transformer	N5CPL • SDT *	N5XPL • SDR *	\$109
Resistor	N5CPL • SDR *	N5XPL • SDR *	\$93

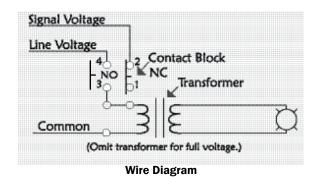
(• See Color Table Below) (* Add Power Supply suffix from table below)





Round Recessed Push Button

Typical Back Side View



*Power Supply (For Press-To-Test Pilot Lights)

Power Supply Type	Lamp	Incandescent Bulb Power Supply Suffix *
	6V	A
	12V	В
Full Valtage	24V	D
Full Voltage	48V	G
	60V	Н
	120V	L
	110 - 120V	J
Transformer (AC Only)	220 - 250V	N
(AC CITIY)	480 - 500V	Y
Standard Resister	110 - 120V	J
(AC/DC)	220 - 240V	N

COLOR TABLE									
- use complete catalog number when ordering. Replace the ($ullet$) with the suffix from the table below.									
Color	Red	Green	Yellow	Blue	White	Amber	Clear	w/o Lens	
Color Code	R	V	G	L	В	A	ı	0	



2 POSITION SELECTOR SWITCHES

(Complete Unit = Operator + Contact Block)

2 Position Selector Switches - Standard

(Contact Block & Legend Plates sold separately; page G5, G21)



4/2	Lever
1	
M	

		Knob	Type ¹	With Bla	ick Lever	
Operating Mode	Cam	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
	D	N5CSMD0 •	N5XSMD0 •	N5CSVD0N	N5XSVD0N	\$22.50
Maintained	ı	N5CSMIO •	N5XSMIO •	N5CSVION	N5XSVION	\$22.50
	Н	N5CSMH0 •	N5XSMH0 •	N5CSVHON	N5XSVHON	\$22.50
Spring Return						
Right To Left	D	N5CSMD5 •	N5XSMD5 •	N5CSVD5N	N5XSVD5N	\$22.50
Right To Center	ı	N5CSMI5 •	N5XSMI5 •	N5CSVI5N	N5XSVI5N	\$22.50
Left To Center	Н	N5CSMH1 •	N5XSMH1 •	N5CSVH1N	N5XSVH1N	\$22.50

(• See Color Table Below)

2 Position Selector Switches - Key Operated²



Operating Mode	Cam	Key Removal	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Maintained		Left	N5CSCD0A95	N5XSCD0A95	\$67.50
	D	Right	N5CSCD0E95	N5XSCD0E95	\$67.50
		Left & Right	N5CSCD0K95	N5XSCD0K95	\$67.50
		Center	N5CSCI0C95	N5XSCI0C95	\$67.50
	ı	Right	N5CSCI0E95	N5XSCI0E95	\$67.50
0		Center & Right	N5CSCION95	NRXSCION95	\$67.50
		Left	N5CSCH0A95	N5XSCH0A95	\$67.50
	Н	Center	N5CSCH0C95	N5XSCH0C95	\$67.50
		Center & Left	N5CSCH0H95	N5XSCH0H95	\$67.50

Spring Return					
Right To Left	D	Left	N5CSD5A95	N5XSCD5A95	\$88.00
Right To Center	I	Center	N5CSCI5C95	N5XSCI5C95	\$88.00
Left To Center	Н	Center	N5CSCH1C95	N5XSCH1C95	\$88.00

Cam Mode

Right To Left



Right to Center



Left to Center 14

Contact Switching Sequence

0			_	Screw Terminal Contact Block		
Cam Mode	<u> </u>	ı		Left Position	Right Position	
	0	-	Х		N5B10VN	
D	Х		0	N5B01VN		
	0 X		X 0	N5B11VN		
	_	0	Х		N5B10VN	
		Х	0	N5B01VN		
•		0 X	X 0	N5B11VN		
	0	Х	_		N5B10VN	
Н	Х	0		N5B01VN		
••	0 X	X 0	_	N5B11VN		

• COLOR TABLE - use complete catalog number when ordering. Replace the (•) with the suffix from the table below.								
Color	Black	Red	Green	Yellow	Blue			
Color Code	N	R	V	G	L			

Notes: 1 Add Suffix from Color Table.

2 Supplied with standard #95 key (spare keys found on page G20)



3 POSITION SELECTOR SWITCHES

(Complete Unit = Operator + Contact Block)

(Contact Block & Legend Plates sold separately; page G5, G21)

3 Position Selector Switches - Standard

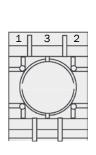






G10

Contact Switching Sequence





Cam Mode	K	↑	_	Screw Termina	al Contact Block	
Cam Wode		ı	Z	Left Position	Right Position	
	0	0	Х	N5B10VN		
	Х	0	0		N5B10VN	
	Х	Х	0	N5B01VN		O°
7	0	Х	Х		N5B01VN	
Z	0	0	Х	N5B11VN		$1 \bigvee$
	Х	Х	0	INDRITAIN		
	Х	0	0		N5B11VN	
	0	Х	Х		INDRITAIN	
	0	0	Х		N5B01VN	0.0
E	0	Х	0	N5B10VN		0° (45° 45°,
E	0	0	Х	N5B11VN] .\ \\.
	0	Х	0	INDRITAIN		
	Х	0	0		N5B10VN	0.0
L	0	Х	0	N5B01VN		0° (45° 45°,
L	Х	0	0	N5B11VN] .
	O X	Х	0	NOBITAIN		•
	0	0	Х	N5B11VN		-
U	0	Х	0	NINTTOCKI		0° (45° 45°
U	0	0	Х		N5B11VN	
	Х	0	0		NORTTAIN	•

ullet COLOR TABLE $$ - use complete catalog number when ordering. Replace the $(ullet)$ with the suffix from the table below.							
Color	Color Black Red Green Yellow Blue						
Color Code	N	R	V	G	L		



3 POSITION KEYED SELECTOR SWITCHES

(Contact Block & Legend Plates sold separately; page G5, G21)

3 Position Selector Switches - Key Operated - Maintained¹





Cam ²	Key Removal	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
	Left	N5CSCZOA95	N5XSCZOA95	\$67.50
	Center	N5CSCZOC95	N5XSCZOC95	\$67.50
	Right	N5CSCZ0E95	N5XSCZ0E95	\$67.50
Z	Left - Center	N5CSCZOH95	N5XSCZOH95	\$67.50
	Left - Right	N5CSCZOK95	N5XSCZOK95	\$67.50
	Center - Right	N5CSCZON95	N5XSCZON95	\$67.50
	Left - Center - Right	N5CSCZOT95	N5XSCZOT95	\$67.50
	Left	N5CSCEOA95	N5XSCEOA95	\$67.50
	Center	N5CSCEOC95	N5XSCE0C95	\$67.50
	Right	N5CSCE0E95	N5XSCE0E95	\$67.50
Ε	Left - Center	N5CSCEOH95	N5XSCEOH95	\$67.50
	Left - Right	N5CSCEOK95	N5XSCEOK95	\$67.50
	Center - Right	N5CSCEON95	N5XSCEON95	\$67.50
	Left - Center - Right	N5CSCEOT95	N5XSCEOT95	\$67.50
	Left	N5CSCLOA95	N5XSCLOA95	\$67.50
	Center	N5CSCLOC95	N5XSCLOC95	\$67.50
	Right	N5CSCLOE95	N5XSCL0E95	\$67.50
L	Left - Center	N5CSCLOH95	N5XSCLOH95	\$67.50
	Left - Right	N5CSCLOK95	N5XSCLOK95	\$67.50
	Center - Right	N5CSCLON95	N5XSCLON95	\$67.50
	Left - Center - Right	N5CSCLOT95	N5XSCLOT95	\$67.50
	Left	N5CSCUOA95	N5XSCUOA95	\$67.50
	Center	N5CSCUOC95	N5XSCU0C95	\$67.50
	Right	N5CSCU0E95	N5XSCU0E95	\$67.50
U	Left - Center	N5CSCUOH95	N5XSCUOH95	\$67.50
	Left - Right	N5CSCUOK95	N5XSCUOK95	\$67.50
	Center - Right	N5CSCUON95	N5XSCUON95	\$67.50
	Left - Center - Right	N5CSCUOT95	N5XSCUOT95	\$67.50

3 Position Selector Switches - Key Operated - Spring Return¹

		L	→ c	c ←	R	L> (C ← R	
Cam ²	Key Removal	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
	Left			N5CSCZ5A95	N5XSCZ5A95			\$67.50
	Center	N5CSCZ1C95	N5XSCZ1C95	N5CSCZ5C95	N5XSCZ5C95	N5CSCZ3C95	N5XSCZ3C95	\$67.50
Z	Right	N5CSCZ1E95	N5XSCZ1E95					\$67.50
	Left - Center			N5CSCZ5H95	N5XSCZ5H95			\$67.50
	Center - Right	N5CSCZ1N95	N5XSCZ1N95					\$67.50
	Left			N5CSCE5A95	N5XSCE5A95			\$88.00
	Center	N5CSCE1S95	N5XSCE1C95	N5CSCE5C95	N5XSCE5C95	N5CSCE3C95	N5XSCE3C95	\$88.00
Ε	Right	N5CSCE1E95	N5XSCE1E95					\$88.00
	Left - Center			N5CSCE5H95	N5XSCE5H95			\$88.00
	Center - Right	N5CSCE1N95	N5XSCE1N95					\$88.00
	Left			N5CSCL5A95	N5XSCL5A95			\$88.00
	Center	N5CSCL1C95	N5XSCL1C95	N5CSCL5C95	N5XSCL5C95	N5CSCL3C95	N5XSCL3C95	\$88.00
L	Right	N5CSCL1E95	N5XSCL1E95					\$88.00
	Left - Center			N5CSCL5H95	N5XSCL5H95			\$88.00
	Center - Right	N5CSCL1N95	N5XSCL1N95					\$88.00
	Left			N5CSCU5A95	N5XSCU5A95			\$88.00
	Center	N5CSCU1C95	N5XSCU1C95	N5CSCU5C95	N5XSCU5C95	N5CSCU3C95	N5XSCU3C95	\$88.00
U	Right	N5CSCU1E95	N5XSCU1E95					\$88.00
	Left - Center			N5CSCU5H95	N5XSCU5H95			\$88.00
	Center - Right	N5CSCU1N95	N5XSCU1N95					\$88.00

Notes: 1 Supplied with 2- #95 Keys

2 See contact switching , page G10



4 & 5 POSITION SELECTOR SWITCHES

(Complete Unit = Operator + Contact Block) (Contact Block & Legend Plates sold separately; page G5, G21)

4 Position Selector Switches; Standard

Oneveting		with M	(nob	with Blac	ck Lever	
Operating Mode	- (:am	Chrome Bezel Catalog No. ¹	Type 4X Bezel Catalog No.¹	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Maintained	Х	N5CSMXO •	N5XSMXO •	N5CSVXON	NTXSVXON	\$22.50
Spring Return (4 to 3 only, maintained (1-2-3)	Х	N5CSMX5 •	N5XSMX5 •	N5CSVX5N	N5XSVX5N	\$29.00

(See Color Table Below)

4 Position Selector Switches; Key Operated (Operators only)



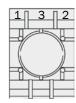
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Operating Mode	Cam	Key Removal	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Maintained	Х	All	N5CSCXOZ95	N5XSCXOZ95	\$82.50
Spring Return (4 to 3 only, maintained (1-2-3)	х	1-2-3	N5CSCX5R95	N5XSCX5R95	\$102.50

Contact Switching Sequence



_									
	Cam			_		Screw Termina	Contact Block		
	Code	•	4-7		- ~ ^ →		→	Left Position	Right Position
	х	0	Χ	0	0	NED44VN			
		0	0	0	Χ	N5B11VN			
		0	0	Х	0		NED44VN		
		Х	0	0	0		N5B11VN		



5 Position Selector Switches; Standard

Operating Mode		with Knob		with Bla		
	Cam	Chrome Bezel Catalog No. ¹	Type 4X Bezel Catalog No. ¹	Chrome Bezel Catalog No.	Type 4X Bezel Catalog No.	Price
Maintained	Y	N5CSMYO •	N5XSMYO •	N5CSVYON	N5XSVYON	\$40.50
	W	N5CSMWO •	N5XSMWO •	N5CSVWON	N5XSVW0N	\$40.50

Contact Switching Sequence

Cam	4 - 4 - 1	Screw Termina	l Contact Block	
Code	← K ↑ X →	Left Position	Right Position	
	0 X 0 0 0	NED11VN		III
W	0 0 0 X 0	N5B11VN		1 40° 40° V
vv	0 0 X 0 0		N5B11VN	
	0 0 0 0 X			***
	0 X 0 0 0	NED11VN		
Y	0 0 0 0 X	N5B11VN		
ľ	0 0 0 X 0		N5B11VN	1 40° 40° V
	X 0 0 0 0		NIVITACN	V

• COLOR TABLE - use complete catalog number when ordering. Replace the (•) with the suffix from the table below.							
Color	Black	Red	Green	Yellow	Blue		
Color Code	N	R	V	G	L		

1 Add Color Suffix from Color Table above



DOUBLE PUSH BUTTONS (Start-Stop)

(Complete Unit = Operator + Power Supply (optional) + Contact Blocks)

Double Push Button without Symbols



Button Level	Button Color	Catalog No. Button without Symbols ¹	Price
Flush Top	Black - Red	N5DPLNRG00	\$33.50
Indicator Light*			
Flush Bottom	Green - Red	N5DPLVRG00	\$33.50
Flush Top	Black - Red	N5DPLNRS00	\$33.50
Indicator Light*			
Extended Bottom	Green - Red	N5DPLVRS00	\$33.50

^{*}Double Push Buttons come with both a white transparent lens for use with indicator light and a black insert for non-illuminated feature.

Double Push Button with Symbols



Button Level	Button Color	Catalog No. Button with Symbols ¹	Price
Flush Top	Black - Red	N5DPLNRG01	\$33.50
Indicator Light*			
Flush Bottom	Green - Red	N5DPLVRG01	\$33.50
Flush Top	Black - Red	N5DPLNRS01	\$33.50
Indicator Light*			
Extended Bottom	Green - Red	N5DPLVRS01	\$33.50

^{*}Double Push Buttons come with both a white transparent lens for use with indicator light and a black insert for non-illuminated feature.

Double Push Button Accessory



Description	Catalog No.	Price
Silicone rubber boot for use with flush operators	080CPDT	\$7.00

Notes: 1 Bulb and Power Supply not included. To order necessary Power Supply and Bulb see page G5

ILLUMINATED PUSH BUTTONS

(Complete Unit = Operator + Power Supply + Contact Blocks)

Standard - Momentary



Operator (Only)¹ (with diffused lens)	Chrome Bezel Catolog No.	Type 4X Bezel Catalog No.	Price
With Flush Cap	N5CPL • GD	N5XPL • GD	\$18.00
With Extended Cap	N5CPL • SD	N5XPL • SD	\$18.00
Guarded	N5CPL • ED	N5XPL • ED	\$18.00

Mushroom Head - Momentary

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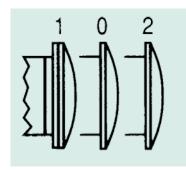
Operator (Only)¹	Chrome Bezel Catolog No.	Type 4X Bezel Catalog No.	Price
Mushroom Head 40mm	N5CEM4 • L	N5XEM4 • L	\$25.50

Mushroom Head - With Latch (Maintained)



Operator (Only)¹	Chrome Bezel Catolog No.	Type 4X Bezel Catalog No.	Price
40mm Push To Latch - Pull To Release	N5CET4 • L1	N5XET4 • L1	\$36.50

Mushroom Head - 3-Position Push Pull (Center Rest)



Operator (Only) ¹	Chrome Bezel Catolog No.	Type 4X Bezel Catalog No.	Price
40mm 3-Position -Maintained Push (0 to 1) -Momentary Pull (0 to 2)	N5CET4 • L2	N5XET4 • L2	\$48.00
40mm 3-Position -Momentary Push (0 to 1) -Momentary Pull (0 to 2)	N5CET4 • L3	N5XET4 • L3	\$48.00

COLOR TABLE - use complete catalog number when ordering. Replace the (*) with the suffix from the table below.						
Color	Black	Red	Green	Yellow	Blue	
Color Code	N	R	V	G	L	

Note: 1 Order Contact Blocks & Powre Supply from page G5



2 & 3 POSITION ILLUMINATED SELECTOR SWITCHES

(Complete Unit = Operator + Power Supply + Contact Blocks)

2-Position Illuminated Selector Switches



Operating Mode	Cam	Chrome Bezel Catolog No. ¹	Type 4X Bezel Catalog No.¹	Price
Maintained	D	N5CSLDO •	N5XSLDO •	\$29.00

Contact Switching Sequence



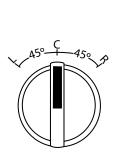
Cam	R A		Screw Terminal	Contact Block
Code			Left Position	Right Position
	0	Х		N5B10VN
D	Х	0	N5B01VN	
U	0	Х	NED44VN	
	Х	0	N5B11VN	

3-Position Illuminated Selector Switches



Operating Mode	Cam	Chrome Bezel Catolog No. ¹	Type 4X Bezel Catalog No. ¹	Price
Maintained	Z	N5CSLZO •	N5XSLZO •	\$29.00
Spring Return				
Left To Center	Z	N5CSLZ1 •	N5XSLZ1 •	\$40.50
Maintained Right				
Spring Return				
Right To Center	Z	N5CSLZ5 •	N5XSLZ5 •	\$40.50
Maintained Left				
Spring Return				
Left & Right	Z	N5CSLZ3 •	N5XSLZ3 •	\$40.50
To Center				

Contact Switching Sequence



Cam				Screw Terminal	Contact Block
Code		ı		Left Position	Right Position
	0	0	Х	N5B10VN	
	Х	0	0		N5B10VN
	Х	Х	0	N5B01VN	
7	0	Х	Х		N5B01VN
Z	0	0	Х	NED44VN	
	Х	Х	0 N5B11VN	_	
	Х	0	0		NED44VN
	0	Х	Х		N5B11VN

• COLOR TABLE - use complete catalog number when ordering. Replace the (•) with the suffix from the table below.							
Color	Red	Green	Yellow	Blue	White	Amber	Clear
Color Code	R	V	G	L	В	A	1

Note: 1 Order Contact Blocks, Power Supplies and Bulbs from page G5

SPECIAL OPERATORS

(Complete Unit = Operator + Contact Blocks)

Joystick - Operators - Type 4X

Positions (see below)	Mechanical Interlock	Maintained All Positions Catalog No.	Momentary All Positions Catalog No.	Price
3	No	N5XMN2F	N5XMN2T	\$132.00
3	Yes	N5XMB2F	N5XMB2T	\$132.00
5	No	N5XMN4F	N5XMN4T	\$179.00
5	Yes	N5XMB4F	N5XMB4T	\$179.00





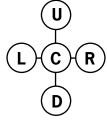
3-Position Joystick Contact Arrangement

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	Position		Screw Terminal Contact Block Catalog No. and Mounting Position		
Up	Center	Down	Position 1	Position 2	
0	0	Χ	N5B11VN		
Χ	0	0	INOBITAIN		
X	0	0		NED44VN	
0	0	Χ		N5B11VN	

5-Position Joystick Contact Arrangement



	Position					Screw Terminal Contact Block Catalog No. and Mounting Position		
	Up	Right	Center	Down	Left	Position 1	Position 2	
)	0	0	0	Х	0	N5B11VN		
)	Χ	0	0	0	0			
	0	Х	0	0	0		NED11VN	
	0	0	0	0	Χ		N5B11VN	



SPECIAL OPERATORS

Toggle Switches & Cams - Operator Only (Note selection and position of contact block(s) operation)



Position			Contact Block Mounting Position		Positions &	Price
Up	Center	Down	1	2	Catalog No.	
Х		0		N5B10VN		
0		Χ	N5B01VN 2 Position		¢04.00	
X		0	NED44VN		Maintained N5XCD	\$24.00
0		Χ	N5B11VN			
Х	0	0		N5B10VN		
0	0	Χ	N5B01VN 3 Position		¢04.00	
X	0	0	NIE D4 4 VAI		Maintained N5XCB	\$24.00
0	0	Χ	N5B11VN			

Potentiometer Operators*



Style	Catalog No.	Price
Chrome Bezel (Operator)*	N5CZ	\$60.00
4X Bezel (Operator)*	N5XZ	\$60.00
10 K-OHM (Operator)*	2W10K	\$75.00

^{*} Potentimeter Operator use .25" x 2" stem.

Wobble Sticks - Type 4X



Catalog No.	Price
N5XWR	\$48.00

Reset Push Buttons (Flush blue push buttons with white "R" provided with screw adjustable from 60mm to 80mm depth)



Style	Catalog No.	Price
Chrome Bezel	N5CRG	\$19.50
4X Bezel	N5XRG	\$19.50
Reset Rod (extended screw 170mm)	N5ACVLR	\$11.50

22mm PRE-ASSEMBLED OPERATORS

The 22mm Pilot Device units listed below are the most commonly ordered units. The units are complete and include operator, contact mounting base and contact blocks. Legend plates are not included. They may be ordered separately from page G21. Units are packed, unassembled in a single carton.

Push Buttons - Momentary

Operator / Description	Type 1, 3, 3R, 4, 12, 13 IP66 Chrome Bezel	Catalog No.	Price
Flush Pushbutton - 1N.O. Contact Block - Black Cap		N5CPNNG10	\$24.50
Flush Pushbutton - 1 N.O. & 1 N.C. Conta	act Block - Black Cap	N5CPNNG11	\$36.00
Flush Pushbutton - 1 N.O. Contact Block	c - Green Cap	N5CPNVG10	\$24.50
Flush Pushbutton - 1 N.O. & 1 N.C. Conta	act Block - Green Cap	N5CPNVG11	\$36.00
Flush Pushbutton - 1 N.C. Contact Block - Red Cap		N5CPNRG01	\$24.50
Extended Pushbutton - 1 N.C. Contact Block - Red Cap		N5CPNRS01	\$24.50
Extended Pushbutton - 1 N.O. & 1 N.C. Contact Block - Red Cap		N5CPNRS11	\$36.00
Guarded Pushbutton - 1 N.O. Contact Block - Black Cap		N5CPNNE10	\$24.50
Guarded Pushbutton - 1 N.O. & 1 N.C. Co	ontact Block - Black Cap	N5CPNNE11	\$36.00
Mushroom 40mm Pushbutton - 1 N.C. C	ontact Block - Red Cap (Momentary)	N5CEM4RN01	\$37.00
Mushroom 40mm Twist-Release - 1 N.C. Contact Block - Red Cap		N5CER4RN01	\$71.50
Double Pushbutton Flush - 1 N.O. & 1 N.	C. Contact Block - Black-Red Cap (No power supply)	N5DPLNRG0011	\$56.50
Double Pushbutton Flush - 1 N.O. & 1 N	.C. Contact Block - Green-Red Cap (No power supply)	N5DPLVRG0011	\$56.50

Selector Switches - Maintained

Operator / Description	Type 1, 3, 3R, 4, 12, 13 IP66 Chrome Bezel	Catalog No.	Price
3 Position Sel. Sw 2 N.O. Contact Blocks - Cam Z - Black Knob		N5CSMZON20	\$45.50
2 Position Sel. Sw 1 N.O. Contact Block - Cam D - Black Knob		N5CSMDON10	\$34.00
3 Position Sel. Sw. Key Operated - 2 N.O.	Contact Block - Cam Z - Center Removal	N5CSCZOC9520	\$90.50
2 Position Sel. Sw. Key Operated - 1 N.O.	& 1 N.C. Contact Block - Cam Z Left-Right Removal	N5CSCDOK9511	\$90.50

Selector Switches - Maintained

Operator / Description	Type 1, 3, 3R, 4, 12, 13 IP66 Chrome Bezel	Catalog No.	Price
Std. Full Voltage Pilot Light 120V - Red 0	Cap (Bulb included)	N5CLRDL	\$42.00
Std. Full Voltage Pilot Light 120V - Green Cap (Bulb included)		N5CLVDL	\$42.00
Std. Full Voltage Pilot Light 120V - Amber Cap (Bulb included)		N5CLADL	\$42.00
Uniblock 300V max. Pilot Light - Red Ca	p (Bulb included)	N5XURDD0	\$18.50
Uniblock 300V max. Pilot Light - Green G	Cap (Bulb included)	N5XUVDD0	\$18.50
Uniblock 300V max. Pilot Light - Amber	Cap (Bulb included)	N5XUADD0	\$18.50
Uniblock 300V max. Pilot Light - Blue Ca	IP (Bulb included)	N5XULDD0	\$18.50

N5CPNVG11 (Pre-assembled)



Discount Schedule SC-36

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ACCESSORIES / REPLACEMENT PARTS



Pushbutton Caps



Description	Catalog No.	Price
Flush & Guarded Operator	N5ARBG •	\$1.50
Extended Operator	N5ARBS •	\$1.50



Momentary Operators (Mushroom)



Description	Catalog No.	Price
28mm	N5ARB3 •	
40mm	N5ARB4 •	\$11.00
60mm	N5ARB6 •	



Push-Pull Operators (Mushroom)



Description	Catalog No.	Price
40mm	N5ACB4 •	\$12.50



Knobs & Levers



Description	Catalog No.	Price
Knob for Selector Switches	N5ACMN •	¢4 E0
Lever for Selector Switches	N5ARMV •	\$4.50

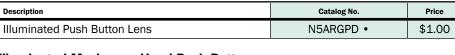
Lenses (Pilot Lights)



Description	Catalog No.	Price
Diffused Version	N5ARGLD •	\$1.00
Refracted Version	N5ARGLR •	\$1.50
Glass Version	N5ARGLV •	\$21.00



Illuminated Push Button Lens





Illuminated Mushroom Head Push Buttons

Catalog No.	Price
N5ARGP4 •	\$11.00
N5ACGP4 •	\$12.50
N5ACGSL •	\$4.50
	N5ARGP4 • N5ACGP4 •



Rubber Protective Caps (Standard Flush Push Buttons)

Description	Catalog No.	Price
Colored	080CP •	\$8.00
Clear	080CPT	Φ0.00

Rubber Protective Cab (Raised Push Buttons)

Description	Catalog No.	Price
Clear	N5ARCST	\$8.00

COLOR TABLE

• Use complete catalog number when ordering. Replace the (•) with the suffix from the table below.

Colors	Black	Red	Green	Yellow	Brown	Blue	White	Grey	Amber	Clear	w/o Cap	Red, Black, Green, Yellow
Pushbutton Caps	N	R	V	G	М	L	В	Н			0	Z¹
Mushroom Heads	N	R	V	G								
Knobs	N	R	V	G		L						
Lenses		R	V	G		L	В		Α	- 1		
Protective Caps	N	R	V	G								

Note 1: When ordering operator with 4-color caps (Red/Black/Green/Yellow) add \$3.00

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N5ACRCL

N5ACFS5

077C3095

N5ARSN1

N5ACWAF



ACCESSORIES / REPLACEMENT PARTS



Plugs (fill a 22mm hole)

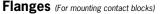
Description	Catalog No.	Price
Round Plug	N5ARHPR	\$8.00



Description	Catalog No.	Price
Adaptor	N5ACA6	\$6.00

Protections

Description	Catalog No.	Price
Extended Guard for 40mm mushroom head	N5ARRE4	\$15.50
Protection Cover: padlockable for standard push buttons, illuminated push buttons, selector switches, illuminated selector switches with knob.	N5ACRCL	\$23.00



Description	Catalog No.	Price
Three position - 30 x 50mm	N5ACFS3	\$4.50
Five position - 50 x 50mm	N5ACFS5	\$8.00

Keys

Description	Catalog No.	Price
Extra Key; Selector Switch	077C3095	\$5.50

Adapter

Description	Catalog No.	Price
Gives round control and signalling units a square appearance. — Made in black thermoplastic. — Excluded for mushroom flush buttons with positive break and Push-Pull units.	N5ARSN1	\$2.50

N5ACVLR

Reset Adjustment Screw

Description	Catalog No.	Price
Extended Screw (170mm)	N5ACVLR	\$11.50

Push-On / Push-Off

Description	Catalog No.	Price
Device for standard push buttons and illuminated push buttons. – To be added only to single-pole contact blocks. – The N.Ocontacts must be early closing types.	N5ACDPP	\$40.50



Ring Adaptor (Allows N5 series to be mounted in 30mm hole)

Description	Catalog No.	Price
Chrome	N5ARAM32	\$11.50
4X Bezel	N5ARAX32	\$11.50



Tools

Description	Catalog No.	Price
Locking ring wrench	N5ACWAF	\$11.50
Bulb extractor	080E3SL	\$6.00



LEGEND PLATES

(Complete Unit = Legend Insert + Insert Holder)

Legend Inserts (used with N5ARTBS Insert Holder - Black background except when noted)





Insert

(N5ACPBS2__)



Complete Unit

Marking	Catalog No.	Price
Start	N5ACPBS202	\$1.00
Stop (Red)	N5ACPBS201	\$1.00
Forward	N5ACPBS214	\$1.00
Reverse	N5ACPBS215	\$1.00
Close	N5ACPBS205	\$1.00
Open	N5ACPBS206	\$1.00
Up	N5ACPBS204	\$1.00
Down	N5ACPBS203	\$1.00
Left	N5ACPBS222	\$1.00
Right	N5ACPBS224	\$1.00
Fast	N5ACPBS208	\$1.00
Slow	N5ACPBS207	\$1.00
Open-Close	N5ACPBS234	\$1.00
Stop-Start	N5ACPBS232	\$1.00
Forward-Reverse	N5ACPBS231	\$1.00
Off-On	N5ACPBS233	\$1.00
Forward-O-Reverse	N5ACPBS239	\$1.00
Emergency Stop (Red)	N5ACPBS229	\$1.00
Inch	N5ACPBS209	\$1.00
Jog	N5ACPBS210	\$1.00
Lower	N5ACPBS217	\$1.00
Off (Red)	N5ACPBS213	\$1.00
On	N5ACPBS212	\$1.00
Power On	N5ACPBS240	\$1.00
Push To Stop / Pull To Start	N5ACPBS241	\$1.00
Reset	N5ACPBS291	\$1.00
Run	N5ACPBS211	\$1.00
Start - Stop	N5ACPBS255	\$1.00
Up - Down	N5ACPBS256	\$1.00
Hand - Off - Auto	N5ACPBS261	\$1.00
Blank Insert	N5ACPBS	\$1.00
Transparent Insert	N5ACPTS	\$1.00
Custom Engrave	NSACPBSX	\$8.00

Insert Holders Insert Holders come with blank insert which can be used to make your own legend. One side Red - One side Black.



- Legend Plates are used for Pilot Device identification of application function.
- Legend Plate requires Legend Holder and Legend Insert
- Legend Plates can be custom engraved at \$8.00 each

Description		Catalog No.	Price
Supplied with neutral insert engravable on both sides	Bla Re	White	
Standard 30 x 50mm		N5ARTBS	\$1.50
Extended 45 x 50mm		N5ARTBM	\$2.50

Emergency Stop Yellow Ring



Description	Catalog No.	Price
58mm Dia	080XTGR02	\$3.00
78MM Dia	080XTG802	\$3.00



TECHNICAL DATA

General Specifications

Conformity to Standards	UL508 (USA)	CSA C22.2 No. 14-M91 (Canada)				
	NEMA ICS-2 (USA)	IEC 947.5.1 (International)				
	VDE 0600 (Germany)	UTE (France)				
	BSI (Great Britain)	NFC 63140 (France)				
	CEI EN60947.5.1 (Italy)	JIS (Japan)				
	CENELEC EN 5000 7 (Europe)					
Approvals	UL listed - File Number E170195	(I) 3)				
	Manufacturing Facility is registered to	so 9000 (E :(U)	us			
Finger Protection at Terminals	IP2X according to IEC 529	IP2X according to IEC 529				
	Terminal identification is registered to ISO 9000					
Enclosure Ratings	Suitable for use in NEMA Types 1, 3, 3	Suitable for use in NEMA Types 1, 3, 3R, 3S, 4, 4X, 12 and 13 enclosures. (Multi-function push buttons are suitable				
	NEMA Type 1 enclosures only unless u	NEMA Type 1 enclosures only unless used with protective rubber cap accessory.) IP66 per IEC529, when mounted it				
	enclosures with equal or superior seal.					
Ambient Temperature	Operating	Storage				
	-13° to +158°F	-40° to +158°F				
	-25° to +70°C	-40° to +70°C				
Climate Suitability / Humidity	Climate Type	Temperature	Relative Humidity			
	Temperature	74°F (23°C)	50%			
	Wet	74°F (23°C)	83%			
	Hot Wet	104°F (40°C)	92%			
	Variable Wet	74° to 104°F (23° to 40°C)	83% to 92%			
Resistance to Vibration	Per IEC 68-2-6, 16g with a frequency fi	om 40-500 Hz and maximum peak-to	p-peak amplitude of 0.75mm			
Resistance to Shock	According to MIL 202B, method 202A.	Test was performed for 1/2 sinusoid	for 11md, 38g max for all operators with			
	transformers and 100g for all other op	transformers and 100g for all other operators.				
Operating Force	Standard push button operator: 2.5lbs	(11N). Each contact block: 1.3lbs (6N).			
. •	Selector switch operator: 2.4in/lb (0.2)		•			

Wire Terminals

	Parallel Conductor Size Combinations			
	(Stranded or Solid Wire)	Terminal Torque		
	#12 with #14	12 in/lb		
Wire Capacity and Terminal Torque Requirements	#14 with #16	12 in/lb		
	#16 with #18	12 in/lb		
	#16 with #20	12 in/lb		
	#16 with #22	12 in/lb		
	#18 with #22	10 - 12 in/lb		
	#18 with #20	10 - 12 in/lb		
	#20 with #22	7 - 12 in/lb		
Quick Connect Terminals	Suitable for one female tab connector measuring 0.25 x 0.03 inches (6.35 x 0.8 mm) or two female tab connectors measuring 0.11 x 0.03 inches (2.8 x 0.8 mm).			

Contact Data

Electrical Reliability Data	Electrical life and reliability in low level current: 80 million operations at 12V, 5mA, resistive load. (32 contacts tested successfully for 2.5 million operations).								
Dust Resistance	In extremely dusty environn	In extremely dusty environments, electrical life at low level current is 250,000 operations at 12V, 5mA, resistive load.							
	In a clean environment, ele	In a clean environment, electrical life at low level current is 10 million operations at 12V, 5mA, resistive load.							
Thermal Current	Ith = 10A per IEC 947-5-1								
Insulation Voltage	Ui = 660 Volts ac/dc (oppos	site polarity) except	2NO and 2	NC blocks	300 Vac/d	dc			
Protection from Electrical Shock	Class I per IEC 536 for meta	al operators							
	Class II (double insulation)	Class II (double insulation) per IEC 536 for plastic operators							
Insulation Category	Group "C" per VDE 0110								
Dielectic Strength	2500 volts								
Short Circuit Protection	10A type G fuse, per IEC 269.1 & 269.3								
	A600 (maximum make volt	amperes = 7200;	maximum b	reak volt-a	mperes =	720; PF25	5)		
	Volts (AC - V)	12	24	48	60	120	240	480	600
	Continuous (A)	10	10	10	10	10	10	10	10
	Making (A)	100	100	100	60	60	30	15	12
	Breaking (A)	10	10	10	6	6	3	1.5	1.2
Pilot Duty Ratings		,				-			
	Q300 (maximum make or b	reak vold-amperes	= 69)						
	Volts (DC - V)	12	24	48	60	125	250	300	
	Continuous (A)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	Making (A)	2.5	2.5	1.4	1.1	0.55	0.27	0.23	
	Breaking (A)	2.5	2.5	1.4	1.1	0.55	0.27	0.23	



TECHNICAL DATA

Contact Data

	AC 5 Contr	ol of AC Ele	ctromagneti	ic Loads						
	Rated Ope	Rated Operational Voltage and Current								
	Ue (V)	12	24	48	60	110	220	380	500	600
IFO I Itiliantian Onto gonian	le	10	10	10	10	6	3	2	1.5	1.2
IEC Utilization Categories	DC1 3 Con	trol of DC E	lectromagn	ets	•					
	Rated Ope	rational Vol	tage and Cu	ırrent						
	UE (M)	12	24	48	60	110	220	300		
	LE (A)	2.5	2.5	1.4	10	0.55	0.27	0.2		
Contact Characteristics	NC: slow m	ake, doubl	e break (pos	sitive openi	ng)					
	NO: slow m	nake, doubl	e break							
	Self-cleani	ng (wiping a	action) conta	act						
	Double-bri	dge contact	s with four	points of co	ntact					
Contact Resistance	<25m0hm	<25mOhm per IEC 255.7 category 3 @ 24V, 1 amp								
Contact Fidelity	Minimum o	current: 5m	A							
	Minimum v	oltage: 12	Vac/dc. ma:	ximum resis	stance - 2 d	ohms				
Logic Reed Contact Data	NC: Single	break								
(Special Order)	NO: Single	break								
	120 Vac m	aximum, 0.	.1 5A maxim	ium, 8VA m	aximum					
	30 Vdc ma	ximum, 15	A maximum	, 4.5W max	imum					

Mounting

Mounting					
Acceptable Panel Thickness	.040236 inches (1-6 mm)				
Operator Locking Ring Torque	26 in/lb (3 N -m)				
Force Required fo Forcibly Remove Contact Blocks and Flange	Contact block or power supply from flange: 27 lbs (118N) 3- or 5-block flange from metal operator: 88 lbs (392 N) 3- or 5-block flange from plastic operator: 66 lbs (294 N)				
Mounting Dimensions	23,5 23,5 23,5 23,5 23,5 23,5 24,4 11,2 22,5 1.97 min with flange/1.18 min for unibloc 50 Dimensions shown in linches millimeters 1.18 min with 3 position flange 1.18 min for unibloc 50 Dimensions shown in linches millimeters				
	Operators	Number of Operations			
	Standard Push Buttons	3,000,000			
	Illuminated Push Buttons ¹	1,000,000 - 3,000,000			
	Momentary Mushroom-head Push Buttons	3,000,000			
	Maintained Mushroom-head Push Buttons	500,000			
	Push-to-Latch, Turn-to-Release Mushroom-Head Push	300,000			
Mechanical Life Ratings for Opera-	Buttons	300,000			
tors	3-Position Mushroom-head Push Buttons	1,000,000			
tors	Non-Illuminated Selector Switches	500,000			
	Illuminated Selector Switches	500,000			
	Joysticks	500,000			
	Toggle Switches	1,000,000			
	Wobble Sticks	500,000			
	Key-Operated Push Buttons	1,000,000			
	Selector Push Buttons				

¹ Number of operations dependent on the operating duration of the lamp. If the lamp is left on for long periods of time, its heat can reduce mechanical life. All illuminated push buttons meet at least 1,000,000 operations.



POLYCARBONATE ENCLOSURES, NAMEPLATES, CONTACT BLOCKS POWER SUPPLIES FOR BASE-MOUNTED PILOT DEVICES

(See pg. G26-28 for assembled push-button stations. Consult factory for custom stations) NEMA 1, 3, 3R, 4, 4X, 12, 13, & IP66

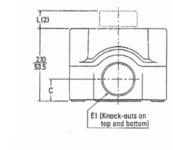
(For use with operators from pages G6 - G15. Requires base-mount contact blocks & power supplies) (maximum of 3 per operator)

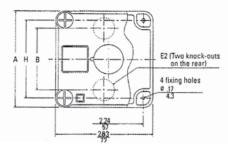
Plastic Enclosures NEMA 1, 3 3R,3S, 4, 4X, 12, 13 and IP66

Enclosure Holes	Center Distance (in/mm)	Dimension A (in/mm)	Dimension B (in/mm)	Dimension C (in/mm)
1		2.83 (72)	1.81 (46)	.65 (16.5)
2	1.18 (30)	4.33 (110)	3.07 (78)	.65 (16.5)
3	1.18 (30)	5.51 (140)	4.25 (108)	.65 (16.5)
4	1.18 (30)	6.89 (175)	5.63 (143)	.65 (16.5)
6	1.18 (30)	9.25 (235)	7.87 (200)	.77 (19.5)

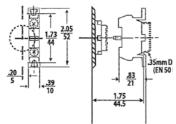
Enclosure	Center Distance	Dimension E1	Dimension E2 ¹	Dimension H
Holes	(in/mm)	Ø (in/mm)	Ø (in/mm)	(in/mm)
1		.91 (23)	.61 (15.5)	2.24 (57)
2	1.18 (30)	.91 (23)	.85 (21.5)	3.74 (95)
3	1.18 (30)	.91 (23)	.85 (21.5)	4.92 (125)
4	1.18 (30)	.91 (23)	.85 (21.5)	6.30 (160)
6	1.18 (30)	1.14 (29)	.91 (23)	8.66 (220)

1 1-, 2-, 3-, and 4-hole enclosures suitable for cable gland, with locknut, PG16 or ½" NPT. 6-hole enclosures suitable for cable gland, with locknut GP12 or ¾" NPT.





Base Mount Contact Blocks with Screw Terminal



Polycarbonate Enclosures

Holes	Color	Encl. Length	Catalog No.	Price
1	Gray	2.83"	N5EPE01	\$23.00
2	Gray	4.33"	N5EPE02	\$27.00
3	Gray	5.51"	N5EPE03	\$35.00
4	Gray	6.89"	N5EPE04	\$50.00
6	Gray	9.25"	N5EPE06	\$76.00

Base-Mount Contact Block (Screw Terminals only for use with Polycarbonate Enclosures)

Туре	Contacts	Catalog No.	Price
Base-Mount	1 NO	N5B10BN	\$11.50
Base-Mount	1 NC	N5B01BN	\$11.50

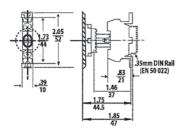
Base-Mount Power Supply (Screw Terminals only)

Туре	Voltage AC/DC	Catalog No. with Incandescent Bulb	Price
	No Lamp	N5PDNB0	\$27.00
	6	N5PDNBA	\$32.50
Full Voltage	12	N5PDNBB	\$32.50
Full Voltage	24	N5PDNBD	\$32.50
	48	N5PDNBG	\$32.50
	120	N5PDNBL	\$32.50
Standard Resistor	110 - 120	N5PRNBJ	\$54.50
	220 - 240	N5PRNBN	\$54.50

Legend plates for Plastic Enclosures (Self adhesive, black background)

Marking	Catalog No.	Price	
Stop	N5AELN201	\$2.50	
Start	N5AELN202	\$2.50	
Down	N5AELN203	\$2.50	
Up	N5AELN204	\$2.50	
Close	N5AELN205	\$2.50	
Open	N5AELN206	\$2.50	
On	N5AELN212	\$2.50	
Off	N5AELN213	\$2.50	
Forward	N5AELN214	\$2.50	
Reverse	N5AEL215	\$2.50	
Left	N5AELN222	\$2.50	
Right	N5AELN224	\$2.50	

Base Mount Power Supply





METAL ENCLOSURES FOR TYPE N5 OILTIGHT PILOT DEVICES

NEMA 12 surface mounting enclosure is available with one through sixteen elements openings. All enclosures will accommodate non-illuminated operators with up to two contact blocks (1 per side). Consult factory for stations with 7 through 20 elements and all custom built assembled push-button stations.

N5 Separate Enclosures



Enclosures only (No operators or contacts)

Type 12, Metal, Surface Mounted Enclosure

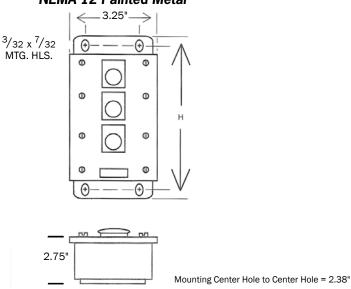
Number of Element(s)	Catalog No.	Price
1	N5SPPSL - 1	\$124.50
2	N5SPPSL - 2	\$140.00
3	N5SPPSL - 3	\$155.50
4	N5SPPSL - 4	\$194.00
5	N5SPPSL - 5	\$194.00
6	N5SPPSL - 6	\$233.00
7 - 20	Consult fac	ctory

Dimensions

Type12, Metal

Number of Element(s)	w	Surface Mounted Enclosure H	D
1		3.50″	
2		5.75″	
3	2.05#	8.00″	0.75"
4	3.25″	10.25″	2.75″
5		12.50″	
6		14.75″	

NEMA 12 Painted Metal



Note: Consult factory for extra deep or wide enclosure and stainless steel NEMA 4X

Ordering Information: Select Enclosure Desired by Catalog Number



22mm ASSEMBLED PUSH-BUTTON STATIONS

22mm push-button stations are available assembled in NEMA 1,3,3R,4, 4X, 12, 13, & IP66 rated polycarbonate enclosures. Assembled stations include operators, contact blocks, pilot lights, bulbs and legend plates as indicated. For other assembled stations not listed below please consult factory.

Single Element 22mm Push-Button Stations



Description (CHROME BEZEL)	Catalog No.	Price
Start PB Station Green Flush Push-Button Momentary	N5PEC101	\$57.50
Stop PB Station Red Extended Push-Button Momentary	N5PEC102	\$57.50
Stop PB Station Red 40mm Mushroom Push-Button Momentary	N5PEC103	\$70.00
Stop PB Station Red 40mm Push-Pull	N5PEC104	\$78.00

N5PEX102

Consult factory for additional custom push-button stations



Description (4X BEZEL)	Catalog No.	Price
Start PB Station Green Flush Push-Button Momentary	N5PEX101	\$57.50
Stop PB Station Red Extended Push-Button Momentary	N5PEX102	\$57.50
Emergency PB Station Red 40mm Mushroom Push Button, twist release EN418 approved	N5PEX103	\$88.00
Stop PB Station Red 40mm Push-Pull	N5PEX104	\$78.00

Consult factory for additional custom push-button stations



22mm ASSEMBLED PUSH-BUTTON STATIONS

Two Element 22mm Push-Button Stations



Description (CHROME BEZEL)	Catalog No.	Price
Start-Stop PB Station Green Flush, Red Extended Push-Buttons Momentary	N5PEC201	\$93.00
Start-Stop PB Station Green Flush, Red 28mm Mushroom PB Momentary	N5PEC202	\$105.50
Open-Close PB Station Two Black Flush Push-Buttons Momentary	N5PEC203	\$93.00
Up-Down PB Station Two Black Flush Push-Buttons Momentary	N5PEC204	\$93.00
Forward-Reverse PB Station Two Black Flush Push-Buttons Momentary	N5PEC205	\$93.00

Consult factory for additional custom push-button stations.



Description (4X BEZEL)	Catalog No.	Price
Start-Stop PB Station (Green Flush, Red Extended Push-Buttons)	N5PEX201	\$93.00
Start-Stop PB Station (Green Flush, Red 28mm mushroom PB)	N5PEX202	\$105.50
Open-Close PB Station (Two Black Flush Push-Buttons)	N5PEX203	\$93.00
Up-Down PB Station (Two Black Flush Push-Buttons)	N5PEX204	\$93.00
Forward-Reverse PB Station (Two Black Flush Push-Buttons)	N5PEX205	\$93.00

Consult factory for additional custom push-button stations.



22mm ASSEMBLED PUSH-BUTTON STATIONS

Three Element 22mm Push-Button Stations



Description (CHROME BEZEL)	Catalog No.	Price
Forward - Reverse - Stop PB Station Two Black Flush, One Red Extended PB Momentary	N5PEC301	\$132.00
Open - Close - Stop PB Station Two Black Flush, One Red Extended PB Momentary	N5PEC302	\$132.00
Up - Down - Stop PB Station Two Black Flush, One Red Extended PB Momentary	N5PEC303	\$132.00
Start - Stop - On Light PB Station One Green Flush, One Red Extended Momentary, Pilot Light Green 120V	N5PEC304	\$149.00
Start - Stop - Selector Switch One Green, One Red Momentary, 2 pos Sel. Sw. Maintained	N5PEC305	\$152.00

Consult factory for additional custom push-button stations.

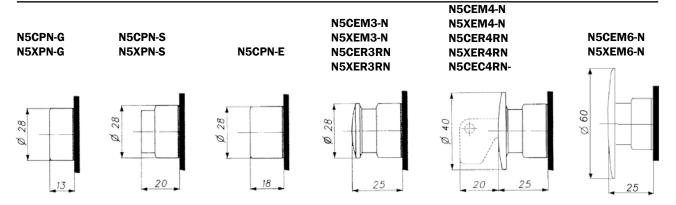


Description (4X BEZEL)	Catalog No.	Price
Forward - Reverse - Stop PB Station Two Black Flush, One Red Extended PB Momentary	N5PEX301	\$132.00
Open - Close - Stop PB Station Two Black Flush, One Red Extended PB Momentary	N5PEX302	\$132.00
Up - Down - Stop PB Station Two Black Flush, One Red Extended PB Momentary	N5PEX303	\$132.00
Start - Stop - On Light PB Station One Green Flush, One Red Extended Momentary, Pilot Light Green 120V	N5PEX304	\$149.00
Start - Stop - Selector Switch One Green, One Red Momentary, 2 pos. Sel. Sw. maintained	N5PEX305	\$152.00

Consult factory for additional custom push-button stations.

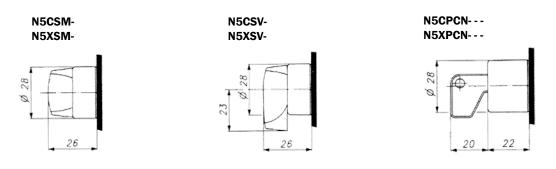


Round Operators - Push-Buttons

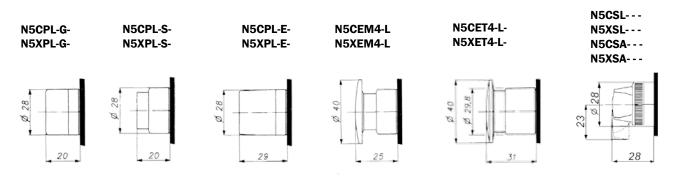


N5CET4-NN5XET4-NN5XET4-NN5XEC4RA-95N
N5CPCN--N5XPCN--N5XPCN---

Round Operators - Selector Switches

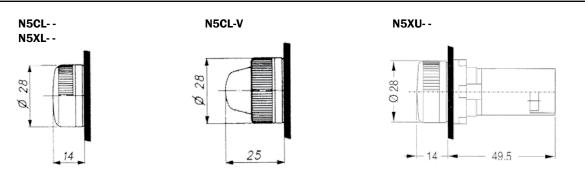


Round Operators - Illuminated Push-Buttons and Selector Switches

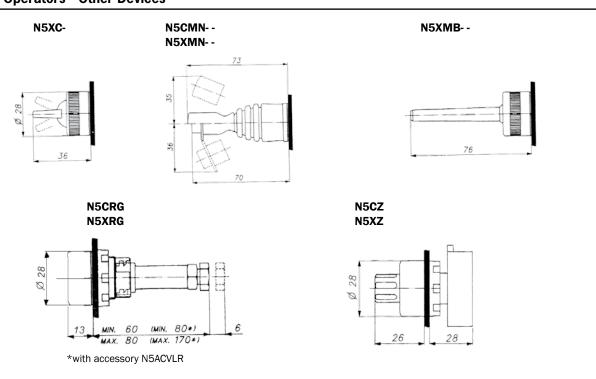




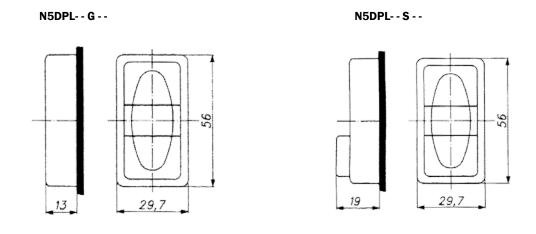
Round Operators - Pilot Lights



Round Operators - Other Devices



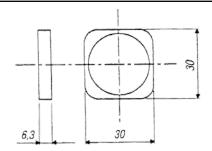
Square Operators - Double Function Push-Buttons





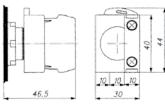
Square Operators - Other Devices

Adaptor N5ARSN1

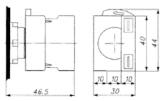


Contact Blocks

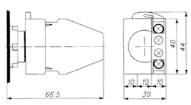
N5B01V-/



N5B01FN /



N5B011VN N5B02VN N5B20VN

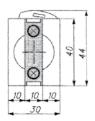


Power Supplies

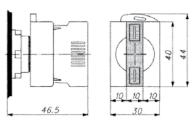
N5PDNV0 N5PRLV -

N5PRDV-



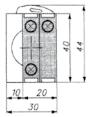


N5PDNF0

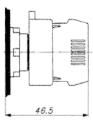


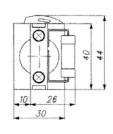
N5PRNV-N5PDTV0 N5PRTV-



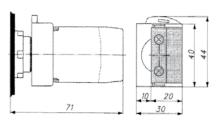


N5PREV-

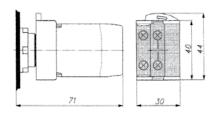




N5PTNV-



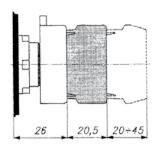
N5PDMV-/

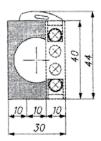




Push-On / Push-Off Devices

N5ACDPP

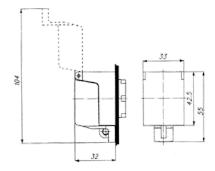




Protection Cover

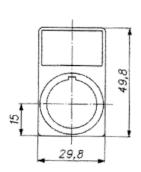
G 32

N5ACRCL

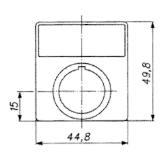


Insert Holders and Plates

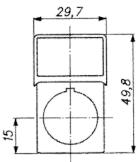
N5ARTBS



N5ARTBM

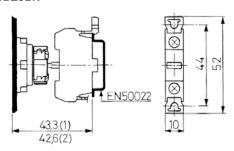


N5ASTBS



Contact Blocks

N5B01BN N5B10BN



(1) With insert holder (2) Without insert holder

Power Supplies

