

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



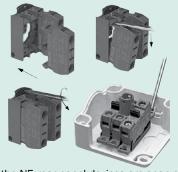
The N5 line offers two bezel types for operators:

- · 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.

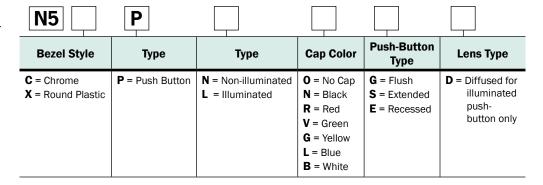
As an option, an assembly wrench is available. (N5ACWAF)



N5 CATALOG NUMBERING SYSTEM

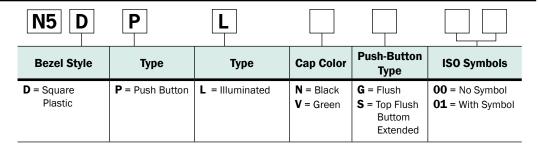
Standard & Illuminated Push-Buttons

Operators Page G6 & Page G14



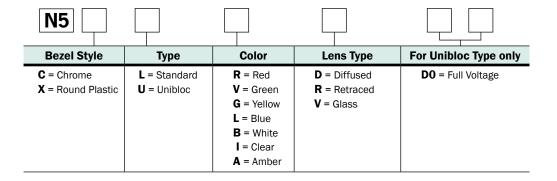
Double Function Push-Buttons

Page G13



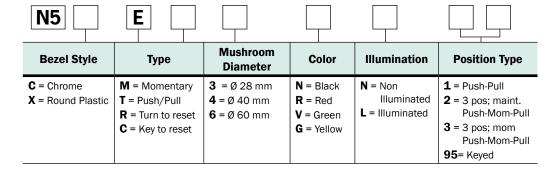
Pilot Lights

Page G7



Mushroom Head Push-Buttons

Page G6





N5 CATALOG NUMBERING SYSTEM

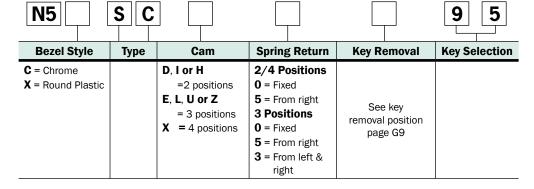
Knob & Lever Selector Switches

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 |

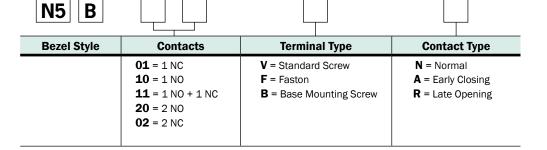
Key Selector Switches

Page G11



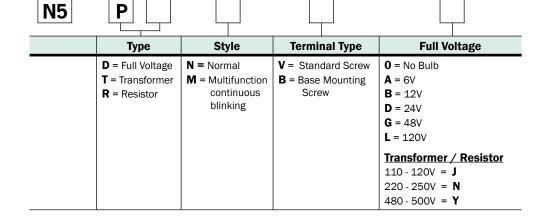
Contact Blocks

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

5 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



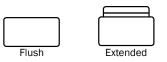
PUSH BUTTONS (Operators only - add contacts on page G5)

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 |

Guarded



(• See Color Table Below)

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) | | |

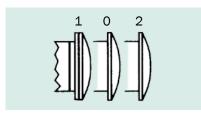
Mushroom Head - with Latch



| 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 |
| Kov Pologog | 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 Col | 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



| Description | Volts Nominal | Watts Nominal | Catalog No. | Price |
|---------------|------------------|------------------|-------------|--------|
| | 6 | 0,6 | N59S06 | \$4.50 |
| | 6 | 1,5 | N59S15 | \$4.50 |
| | 12 | 2 | N59S12 | \$4.50 |
| N59S | 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 | Catalog No. | Price |
|-------------|------------------|-------------|---------|
| | 6 | BA9S06L * | \$28.00 |
| | 12 | BA9S12L * | \$28.00 |
| Multi-LED | 24 | BA9S24L * | \$28.00 |
| Williti-LED | 48 | BA9S48L * | \$28.00 |
| | 110 | BA9S110L * | \$28.00 |
| | 230 | BA9S230L * | \$28.00 |

| # 150 O.L. T.U. | Red | Green | Yellow |
|-------------------|-----|-------|--------|
| * LED Color Table | R | V | G |

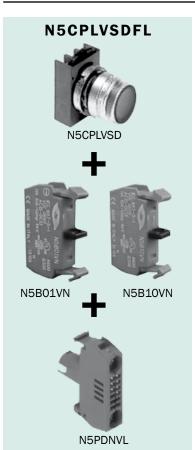
| COLOR TABLE | | | | | | | | |
|--|-----|-------|--------|------|-------|-------|-------|--|
| - use complete catalog number when ordering. Replace the ($ullet$) with the suffix from the table below. | | | | | | | | |
| Color | Red | Green | Yellow | Blue | White | Amber | Clear | |
| Color Code | R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

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



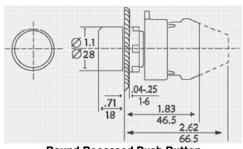
PRESS-TO-TEST PILOT LIGHTS (Complete Unit = Part number with competed suffixes)

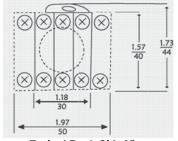
Press-To-Test Pilot Lights; includes power supply, contacts, and incandescent bulb



| 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 |

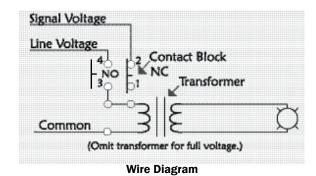
(• See Color Table Below) (* Add Power Supply suffix from table below)





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 Vallage | 24V | D |
| Full Voltage | 48V | G |
| | 60V | Н |
| | 120V | L |
| | 110 - 120V | J |
| Transformer (AC Only) | 220 - 250V | N |
| (AC Offig) | 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)



| 4/60 | Lever |
|------|-------|
| | |
| M | |
| | - 19 |

| | | Knob | Type ¹ | With Bla | ck 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 | I | 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 | N5CSCHOH95 | 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 Center



Left to Center I 45 0°

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 | |

| 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 | | | |

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

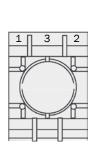






G10

Contact Switching Sequence





| Cam Mode | K | | Z | Screw Termina | al Contact Block | |
|------------|---|---------|------------|---------------|------------------|---------------------------|
| Calli Mode | | I | | Left Position | Right Position | |
| | 0 | 0 | Х | N5B10VN | | |
| | Х | 0 | 0 | | N5B10VN | |
| | Х | Х | 0 | N5B01VN | | |
| 7 | 0 | Х | Х | | N5B01VN |] [,45° 45°, |
| Z | 0 | 0 | Х | N5B11VN | | $1 \bigvee$ |
| | Х | Х | 0 | INDETTAIN | | |
| | Х | 0 | 0 | | NED11VN | |
| | 0 | Х | Х | | N5B11VN | |
| | 0 | 0 | Х | | N5B01VN | |
| E | 0 | X | 0 | N5B10VN | | 0° (45° 45°, |
| E | 0 | 0 | Х | - N5B11VN | |] "\/" |
| | 0 | Х | 0 | NOBITAIN | | Ť |
| | Х | 0 | 0 | | N5B10VN | 0° |
| | 0 | X | 0 | N5B01VN | |] U |
| L | Х | 0 | 0 | N5B11VN | | |
| | 0 | Х | O NOBITAIN | | • | |
| | 0 | 0 | Х | | | 00 |
| U | 0 | Х | 0 | N5B11VN | | 0° (45° 45°, |
| U | 0 | 0 | Х | | N5B11VN | |
| | Х | 0 | 0 | | NIATTACNI | • |

| • COLOR TABLE - use complete catalog number when ordering. Replace the (•) 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 |
| Ζ | 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 | N5CSCE0C95 | 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 | N5CSCL0E95 | 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 | N5XSCUOC95 | \$67.50 |
| | Right | N5CSCU0E95 | N5XSCU0E95 | \$67.50 |
| U | Left - Center | N5CSCUOH95 | N5XSCUOH95 | \$67.50 |
| U | 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

| Operating Cam | | with Knob | | with Blac | | |
|--|--|---|-----------------------------|------------------------------|----------|---------|
| | 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)

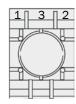


| Operating Mode | Cam | Key Removal | Chrome Bezel Catalog No. | Type 4X Bezel Catalog No. | Price |
|--|-----|----------------|-----------------------------|------------------------------|----------|
| Maintained | Х | All | N5CSCXOZ95 | N5XSCXOZ95 | \$82.50 |
| Spring Return (4 to 3 only, maintained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

Contact Switching Sequence



| | Cam | | | X | | Screw Termina | Contact Block |
|--|------|----------|---|--------------------------|---|---------------|----------------|
| | Code | <u> </u> | | ← ^ <i>></i> → | | Left Position | Right Position |
| | х | 0 | Х | 0 | 0 | N5B11VN | |
| | | 0 | 0 | 0 | Χ | INDETTAIN | |
| | | 0 | 0 | Χ | 0 | | N5B11VN |
| | | Х | 0 | 0 | 0 | | NINTTOCKI |



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 | | Screw Terminal Contact Block | | |
|------|------------------|------------------------------|----------------|---------------------------|
| Code | ← K ↑ X → | Left Position | Right Position | |
| | 0 X 0 0 0 | NED44VN | | III |
| 14/ | 0 0 0 X 0 | N5B11VN | | II IV 40° / |
| W | 0 0 X 0 0 | | N5B11VN | 1 40° V |
| | 0 0 0 0 X | | | |
| | 0 X 0 0 0 | N5B11VN | NEDAMA | |
| V | 0 0 0 0 X | | | III II IV 40° 40° / |
| Y | 0 0 0 X 0 | | NEDAAVN | 40° 40° -V |
| | X 0 0 0 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 | | |

1 Add Color Suffix from Color Table above

Discount Schedule SC-36

G12



DOUBLE PUSH BUTTONS (Start-Stop)

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

Double Push Button without Symbols



| Dutten Level | Button Oolor | Catalog No. | Dries | |
|------------------|--------------|-------------------------------------|---------|--|
| Button Level | Button Color | 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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N5CEM4RL

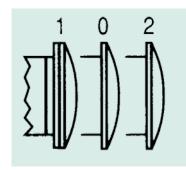
| Operator (Only) ¹ | Chrome Bezel Catolog No. | Type 4X Bezel Catalog No. | Price |
|------------------------------|-----------------------------|------------------------------|---------|
| Mushroom Head 40mm | N5CEM4 • L | N5XEM4 • L | \$25.50 |

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



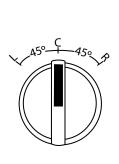
| Cam | K N | | Screw Terminal | Contact Block |
|----------|-----|---|----------------|----------------|
| Code | | | Left Position | Right Position |
| | 0 | Х | | N5B10VN |
| D | Х | 0 | N5B01VN | |
| ט | 0 | Х | NIED44VNI | |
| | Х | 0 | N5B11VN | |

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 | |
| | X | 0 | 0 | | N5B10VN |
| | X | Х | 0 | N5B01VN | |
| Z | 0 | Х | Х | | N5B01VN |
| Z | 0 | 0 | Х | NED44VN | |
| | X | Х | 0 | N5B11VN | |
| | X | 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

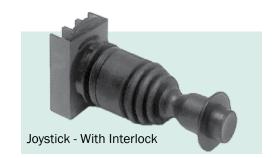
SPECIAL OPERATORS

(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 |





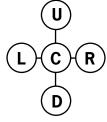
3-Position Joystick Contact Arrangement

| (| U) |
|---|----|
| | I |
| (| C) |
| / | Ţ |
| (| D) |

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| | Position | | Screw Terminal C Catalog No. and Mo | |
|----|----------|------|--|-------------|
| Up | Center | Down | Position 1 | Position 2 |
| 0 | 0 | Χ | N5B11VN | |
| Χ | 0 | 0 | INDRITAIN | |
| X | 0 | 0 | | NED44VN |
| 0 | 0 | Χ | | N5B11VN |

5-Position Joystick Contact Arrangement



| Position | | | 1 | | 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 | INDETTAIN | |
| | 0 | Χ | 0 | 0 | 0 | NED44VA | |
| | 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. | |
| X | _ | 0 | | N5B10VN | | |
| 0 | | Χ | N5B01VN | | 2 Position Maintained | \$24.00 |
| X | | 0 | | | N5XCD | \$24.00 |
| 0 | | Χ | N5B11VN | | | |
| Х | 0 | 0 | | N5B10VN | | |
| 0 | 0 | Χ | N5B01VN | | 3 Position Maintained | \$24.00 |
| X | 0 | 0 | NED44VN | | N5XCB | φ∠4.00 |
| 0 | 0 | Χ | N5B11VN | | | |

Potentiometer Operators*



| Style | Catalog No. | Price |
|--------------------------|-------------|----------|
| Chrome Bezel (Operator)* | N5CZ | \$101.00 |
| 4X Bezel (Operator)* | N5XZ | \$101.00 |
| 10 K-OHM (Operator)* | 2W10K | \$132.00 |

^{*} 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 B | xtended Pushbutton - 1 N.C. Contact Block - Red Cap | | |
| Extended Pushbutton - 1 N.O. & 1 N.C. C | Contact Block - Red Cap | N5CPNRS11 | \$36.00 |
| Guarded Pushbutton - 1 N.O. Contact Blo | ock - 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 | n Cap (Bulb included) | N5CLVDL | \$42.00 |
| Std. Full Voltage Pilot Light 120V - Ambe | er 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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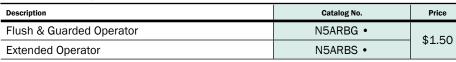


ACCESSORIES / REPLACEMENT PARTS



Pushbutton Caps







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 • | ¢4.50 | |
| 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

| Description | Catalog No. | Price |
|------------------------------|-------------|--------|
| Illuminated Push Button Lens | N5ARGPD • | \$1.00 |
| | | |



Illuminated Mushroom Head Push Buttons

| Description | Catalog No. | Price |
|-----------------------------------|-------------|---------|
| Momentary 40mm | N5ARGP4 • | \$11.00 |
| Push-Pull 40mm | N5ACGP4 • | \$12.50 |
| Illuminated Lever Selector Switch | N5ACGSL • | \$4.50 |



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 | | А | - 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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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 |



| 4 | - 6 May 1 | | |
|---------|---------------|---|-------|
| | 0 | 1 | Flang |
| | | | switc |
| NOACRUL | To the second | | butto |
| N5ACRCL | | / | Prote |
| | | | Exten |

| 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 |

Flanges (For mounting contact blocks)

| 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 |



N5ACFS5

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 |



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 |



080E35L

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 | (((| | | | | |
| | Manufacturing Facility is registered to | so 9000 (€ : (••) | us | | | | |
| Finger Protection at Terminals | IP2X according to IEC 529 | | | | | | |
| | Terminal identification is registered to | SO 9000 | | | | | |
| Enclosure Ratings | Suitable for use in NEMA Types 1, 3, 3 | R, 3S, 4, 4X, 12 and 13 enclosures. (| (Multi-function push buttons are suitable for | | | | |
| _ | NEMA Type 1 enclosures only unless u | sed with protective rubber cap access | sory.) IP66 per IEC529, when mounted in | | | | |
| | enclosures with equal or superior seal. | | | | | | |
| Ambient Temperature | Operating | 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 | Per IEC 68-2-6, 16g with a frequency from 40-500 Hz and maximum peak-to-peak amplitude of 0.75mm | | | | | |
| Resistance to Shock | According to MIL 202B, method 202A. | 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 | erators. | | | | | |
| Operating Force | Standard push button operator: 2.5lbs | (11N). Each contact block: 1.3lbs (| 6N). | | | | |
| Selector switch operator: 2.4in/lb (0.27Nm) | | | | | | | |

Wire Terminals

| | Terminal torque: 7-12 in/lb. Parallel conductor size combination Parallel Conductor Size Combinations | , | | | |
|-----------------------------------|--|-----------------|--|--|--|
| | (Stranded or Solid Wire) | Terminal Torque | | | |
| Wire Capacity and Terminal Torque | #12 with #14 | 12 in/lb | | | |
| | #14 with #16 | 12 in/lb | | | |
| Requirements | #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 succes | (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 | ctrical life at low lev | el current i | s 10 million | n operatio | ns at 12V, 5 | mA, resistiv | e load. | |
| Thermal Current | Ith = 10A per IEC 947-5-1 | | | | | | | | |
| Insulation Voltage | Ui = 660 Volts ac/dc (oppor | site polarity) except | 2NO and 2 | NC blocks | 300 Vac/d | dc | | | |
| Protection from Electrical Shock | Class I per IEC 536 for met | al operators | | | | | | | |
| | Class II (double insulation) | per IEC 536 for pla | stic operato | ors | | | | | |
| Insulation Category | Group "C" per VDE 0110 | | | | | | | | |
| Dielectic Strength | 2500 volts | 2500 volts | | | | | | | |
| Short Circuit Protection | 10A type G fuse, per IEC 269.1 & 269.3 A600 (maximum make volt-amperes = 7200; maximum break volt-amperes = 720; PF25) | | | | | | | | |
| | | | | | | | | | |
| | 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 Cont | rol of AC Ele | ctromagneti | c Loads | | | | | | |
|----------------------------|---|--|---------------|------------|-------|------|------|-----|-----|-----|
| | | Rated Operational Voltage and Current | | | | | | | | |
| | Ue (V) | 12 | 24 | 48 | 60 | 110 | 220 | 380 | 500 | 600 |
| IFO Utilization Catagorica | le | 10 | 10 | 10 | 10 | 6 | 3 | 2 | 1.5 | 1.2 |
| IEC Utilization Categories | DC1 3 Cor | ntrol of DC E | lectromagn | ets | | | | | | |
| | Rated Ope | rational Vol | tage and Cu | rrent | | | | | | |
| | 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 n | NC: slow make, double break (positive opening) | | | | | | | | |
| | NO: slow r | NO: slow make, double break | | | | | | | | |
| | Self-clean | ing (wiping a | action) conta | act | | | | | | |
| | Double-bri | Double-bridge contacts with four points of contact | | | | | | | | |
| Contact Resistance | <25m0hn | n per IEC 25 | 5.7 categor | y 3 @ 24V, | 1 amp | | | | | |
| Contact Fidelity | Minimum | current: 5m | A | | | | | | | |
| | Minimum voltage: 12 Vac/dc. maximum resistance - 2 ohms | | | | | | | | | |
| Logic Reed Contact Data | NC: Single | break | | | | | | | | |
| (Special Order) | NO: Single | break | | | | | | | | |
| | 120 Vac maximum, 0.1 5A maximum, 8VA maximum | | | | | | | | | |
| | 30 Vdc maximum, 15A maximum, 4.5W maximum | | | | | | | | | |

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 | 1.18 min with 3 22.5 1.97 min with flange/1.18 min for unibloc 50 Dimensions shown in inches millimeters 1.18 min with 3 position flange 1.18 min with 3 position flange | | | | | |
| | 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.

G24

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

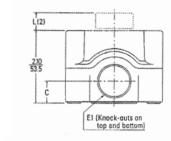
(For use with operators from pages G6 - G15. Requires base-mount contact blocks & power supplies) (maximum of 3 per operator)

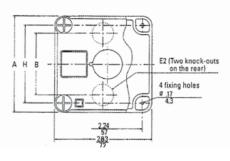
Plastic Enclosures NEMA 1, 3 3R,3S, 4, 4X, 12, 13 and IP66

| 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) |

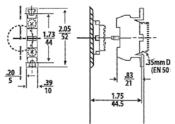
| Enclosure Holes | Center Distance (in/mm) | Dimension E1 Ø (in/mm) | Dimension E2 ¹ Ø (in/mm) | Dimension H (in/mm) |
|--------------------|-------------------------------|------------------------------|---|---------------------------|
| 1 | | .91 (23) | .61 (15.5) | 2.24 (57) |
| 2 | 1.18 (30) | .91 (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 ½" 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 |

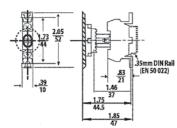
Base-Mount Power Supply (Screw Terminals only)

| 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 |
| | 24 | N5PDNBD | \$32.50 |
| | 48 | N5PDNBG | \$32.50 |
| | 120 | N5PDNBL | \$32.50 |
| 0: 1 15 :: | 110 - 120 | N5PRNBJ | \$54.50 |
| Standard Resistor | 220 - 240 | N5PRNBN | \$54.50 |

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

| G F | | | |
|---------|-------------|--------|--|
| 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

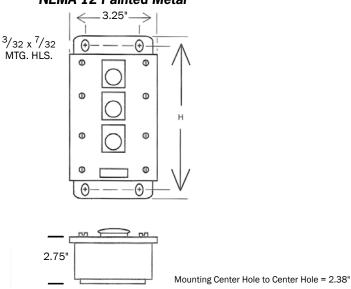
| Number of Element(s) | Catalog No. | Price |
|----------------------|-------------|----------|
| 1 | N5SPPSL - 1 | \$124.50 |
| 2 | N5SPPSL - 2 | \$140.00 |
| 3 | N5SPPSL - 3 | \$155.50 |
| 4 | N5SPPSL - 4 | \$194.00 |
| 5 | N5SPPSL - 5 | \$194.00 |
| 6 | N5SPPSL - 6 | \$233.00 |
| 7 - 20 | Consult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



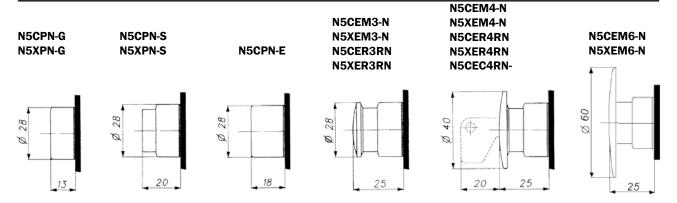
| Description (4X BEZEL) | Catalog No. | Price |
|--|-------------|----------|
| Forward - Reverse - Stop PB Station Two Black Flush, One Red Extended PB Momentary | N5PEX301 | \$132.00 |
| Open - Close - Stop PB Station Two Black Flush, One Red Extended PB Momentary | N5PEX302 | \$132.00 |
| Up - Down - 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 |

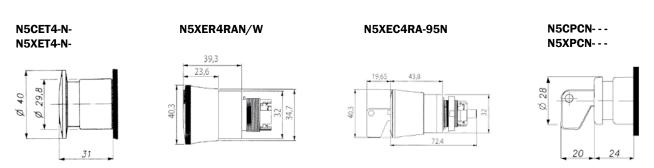
Consult factory for additional custom push-button stations.



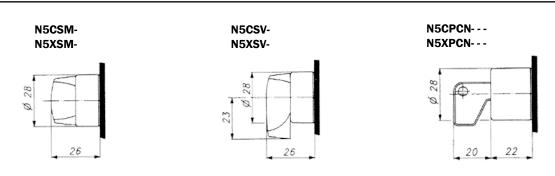


Round Operators - Push-Buttons

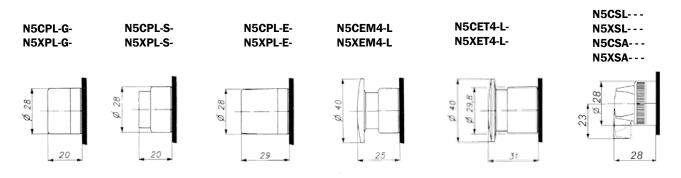




Round Operators - Selector Switches

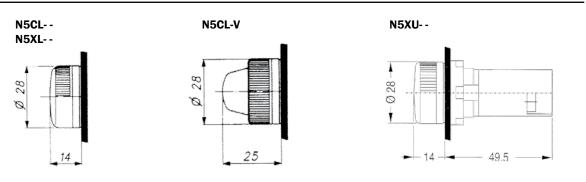


Round Operators - Illuminated Push-Buttons and Selector Switches

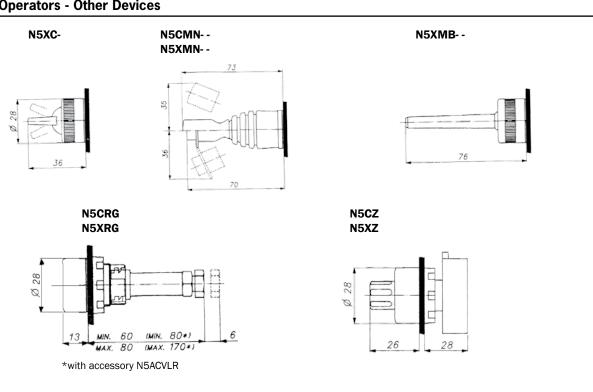




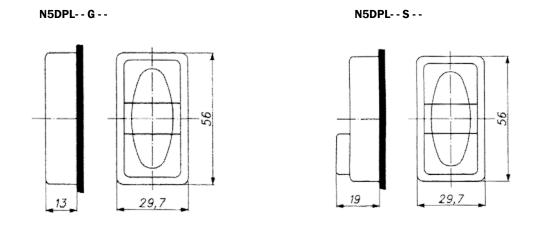
Round Operators - Pilot Lights



Round Operators - Other Devices



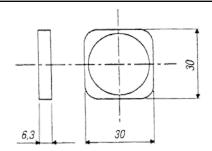
Square Operators - Double Function Push-Buttons





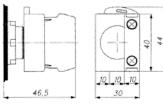
Square Operators - Other Devices

Adaptor N5ARSN1

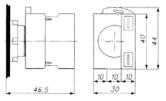


Contact Blocks

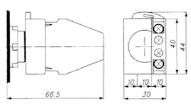
N5B01V-/



N5B01FN /



N5B011VN N5B02VN N5B20VN

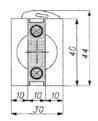


Power Supplies

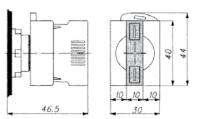
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N5PRLV -N5PRDV-

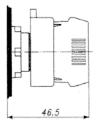


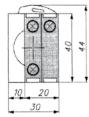


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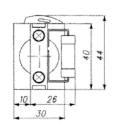
N5PRNV-N5PDTV0 N5PRTV-



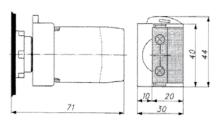


N5PREV-

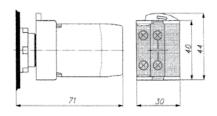




N5PTNV-



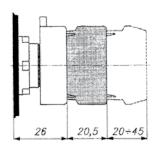
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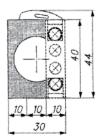




Push-On / Push-Off Devices

N5ACDPP

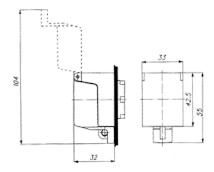




Protection Cover

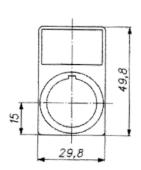
G 32

N5ACRCL

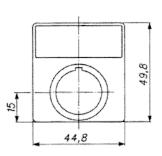


Insert Holders and Plates

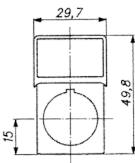
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N5ARTBM

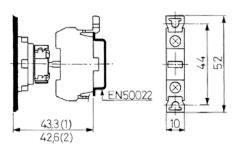


N5ASTBS



Contact Blocks

N5B01BN N5B10BN



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

Power Supplies

