## 7 <br> Carling Technologies ${ }^{\circ}$ <br> III NOW PART OF <br> Littelfuse

## 3M-Series

Miniature Pushbutton Switches

PRODUCT WEBPAGE
request sample, configure part

The 3M family of miniature pushbutton switches is composed of four switch series; the 3 MNH -Series premium sealed snap-action pushbutton, the 3MNSeries snap-action pushbutton, the 3MS-Series sealed snap-action pushbutton, and the 3MA-Series alternateaction pushbutton. These PC mount pushbutton switches offer a variety of ratings, circuits, contact materials, terminal platings, pushbutton styles, and optional color caps.

## 1-2 .4-6 125, $250 \quad 28$ <br> Poles Amps VAC VDC

## Typical Applications

- Instrumentation
- Telecommunications
- Networking
- Performance Audio
- Computers
- Low Power On/Off Designs


## Tech Specs



3MNH-Series Premium Sealed Miniature Pushbutton Switch


3MS-Series
Sealed Snap-Action
Miniature Pushbutton Switch


3MN-Series Snap-Action Miniature Pushbutton Switch


3MA-Series Alternate Action Miniature Pushbutton Switch

## Electrical

| Contact Rating | refer to ordering scheme |
| :--- | :--- |
| Electrical Life | 50,000 make \& break cycles @ <br> full load |
| Contact Resistance | 3MS-Series: $50 \mathrm{~m} \Omega$ max. initial @ <br> $2-4 \mathrm{VDC} \mathrm{100mA} \mathrm{for} \mathrm{both} \mathrm{silver} \mathrm{\&}$ <br> gold plated contacts. <br> $3 \mathrm{MN}, 3 \mathrm{MA} \& 3 \mathrm{NMH}-\mathrm{Series:} 10 \mathrm{~m} \Omega$ <br> max. initial @ 2-4 VDC 100mA <br> for both silver \& gold plated <br> contacts. |
| Insulation Resistance | $1000 \mathrm{M} \mathrm{\Omega}$ min. |
| Dielectric Strength | 1500 Volts RMS @ sea level |

## Physical

| Operating Temperature | $-30^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Index of Protection | 3MS-Series: IP68 <br> 3MNH-Series: IP67 |
| Cap Installation Support | 3MS-Series: 10 Ibs. max. |
| Solder Heat Resistance | MIL-STD-202, Method 210 |

## Material

| Case | 3MS-Series: Glass filled nylon <br> 6/6, flame retardant, heat <br> stabilized <br> (UL94V-0) <br> 3MN, 3MA \& 3NMH-Series: Dially <br> phthalate (DAP) (UL 94V-0) |
| :--- | :--- |
| Plunger | 3MS \& 3MA-Series: Glass filled <br> nylon or glass filled polyester <br> (UL94V-0) <br> 3MN-Series:Thermoplastic <br> polyester, black <br> 3NMH-Series: Brass, black finish <br> with o-ring seal |
| Bushing | 3MN-Series: Brass, nickel plated <br> 3MA-Series: Zinc, nickel plated <br> 3NMH-Series: Brass, black finish <br> with o-ring seal |
| 3MN \& 3MA-Series: Stainless Steel |  |
| Housing | 3MS-Series: Stainless Steel |
| Switch Support | Epoxy |
| Terminal Seal |  |

## Ordering Schemes



## 1. SERIES

3MNH Premium Sealed Miniature Pushbutton Switch

## 2. POLES

SP $\quad$ Single pole - uses terminals $1,2 \& 3$
DP Double pole - uses terminals 1, 2, 3, 4, 5 \& 6

## 3. CIRCUIT

| ( ) - momentary |  |  |
| :--- | :--- | :--- |
| Switching Position: | 1 | 2 |
| 1 | ON | ON |
| 7 | ON | (ON) |

Note: Plunger at rest in Position 1. Plunger depressed in Position 2.

## 4. ACTUATOR STYLE

| PJ | .325 height $[8.25 \mathrm{~mm}]$ |
| :--- | :--- |
| PA | .157 height $[4.00 \mathrm{~mm}]$ |
| PB | .354 height $[9.00 \mathrm{~mm}]$ |

Notes:
1 PJ Plunger for maintained circuits only. PA and PB Plunger for momentary circuits Only
2 Hardware includes (1) 2MI-HDW4 nut and (1) 3MNH-WCP-0872 o-ring
3 BJ Bushing only available with PJ Plunger
4 BL Bushing only available with PA or PB Plunger
5 Movable contact \& terminal platings: silver over copper alloy
6 Movable Contact platings: gold over nickel over copper alloy
Terminal platings: gold over nickel over copper alloy
( Configure Complete Part Number ) Browse Standard Parts )
5. ACTUATOR COLOR

BJ 3 Threaded $15 / 32$, flat, .553 height [ 14.05 mm ]
BL 4 Threaded $15 / 32$, flat, .295 height [ 7.49 mm ]

## 6. TERMINATION

M1 Solder Lug
M2 PC thru-hole
M51 Wire wrap, .7ו1" [ 18.05 mm ]
M52 Wire wrap, . $924^{\prime \prime}$ [ 23.48 mm ]
M53 Wire wrap, . 386 " 9.80 mm ]

## 7. CONTACTS / TERMINALS

## Contact Material Terminal Plating

Rating
Approvals
G silver ${ }^{5}$ gold over silver(SPI, DP

6A@125VAC or 28VDC 3A@250VAC
(SP7, DP7)
Q silver $^{5} \quad$ silver $^{5}(\mathrm{SPI}, \mathrm{DPI})$
1A@I20VAC or 38VDC
(SP7, DP7)
6A@I25VAC or 28VDC 3A@250VAC
$\mathbf{R}$ gold $^{6}$ gold $^{7} \quad 0.4 \mathrm{VA}$ max @ $20 \mathrm{~V} \max (\mathrm{AC} / \mathrm{DC}) \mathrm{N} / \mathrm{A}$

## 8. EPOXY SEAL

E Epoxy Seal


## 1. SERIES

3MS Sealed Snap-Action Miniature Pushbutton Switch

## 2. POLES

WSP Single pole - uses terminals $1,2 \& 3$
WDP Double pole - uses terminals $1,2,3,4,5 \& 6$

## 3. CIRCUIT

( ) - momentary

| Switching Position: | $\mathbf{1}$ | $\mathbf{2}$ |
| :--- | :--- | :--- |
|  | $2-3,5-6$ | $2-1,5-4$ |
| $\mathbf{7}$ | ON | (ON) |

Note: Plunger at rest in Position 1. Plunger depressed in Position 2

## ACTUATOR STYLE

## P1 Standard Plunger <br> P2 Long Plunger

P3 Short Plunger

## 5. BUSHING

B1 ${ }^{1}$ Threaded, with keyway, 350 height [ 8.89 mm ]
B4 Unthreaded, flatted, .250 height [ 6.35 mm ]

[^0]
## 6. TERMINATION

M1 Solder Lug
M2 РСВ
M6 PC Mount, $90^{\circ}$ horizontal
M61 Snap-In, $90^{\circ}$ horizontal
M7 PC Mount, $90^{\circ}$ vertical
M71 Snap-In, $90^{\circ}$ vertical
VS2 PC Mount, U bracket, $.620^{\prime \prime}$ mounting x $.461^{\prime \prime}$ height
VS21 Snap-In, U bracket, .620" mounting x .461 " height
VS3 PC Mount, U bracket, .620" mounting x .630" height
VS31 Snap-In, vertical, .630" height
VS4 PC Mount, U bracket, $750^{\prime \prime}$ mounting x $.461^{\prime \prime}$ height
VS41 Snap-In, vertical, .461 height
VS5 PC Mount, U bracket, $750^{\prime \prime}$ mounting x $.630^{\prime \prime}$ height
VS51 Snap-In, vertical, .630" height

## 7. CONTACTS/TERMINALS

| Contact M | Terminal P | Rating | Ap |
| :---: | :---: | :---: | :---: |
| G silver ${ }^{3}$ | gold over | 1A 120VAC or 38VDC | ${ }_{\text {c }} \mathbf{N u}_{\text {us, IP68 }}$ |
| Q silver ${ }^{3}$ | silver ${ }^{3}$ | 1A 120VAC or 38VDC | ${ }_{\text {c }} \mathrm{NM}_{\text {us, IP68 }}$ |
| R gold ${ }^{2}$ | gold ${ }^{2}$ | 0.4VA max 20 V max | (A/DC) IP68 |

## 8. EPOXY SEAL

E Epoxy Seal 0 without Epoxy Seal

Configure Complete Part Number >
楽 Browse Standard Parts >

# Ordering Scheme 

## 3MN-Series with Square Actuator

Sample
Sart Number
Selen
3

## 3MN-Series with Plunger Actuator



## 1. SERIES

3MN Snap-Action Miniature Pushbutton Switch

## 2. POLES

SP $\quad$ Single pole - uses terminals $1,2 \& 3$
DP Double pole - uses terminals 1, 2, 3, 4, 5 \& 6

## 3. CIRCUIT

```
( ) - momentary
```

```
Switching Position: lll
```

Switching Position: lll
7 ON (ON)

```

Note: Plunger at rest in Position 1. Plunger depressed in Position 2.

\section*{4. ACTUATOR}

Square Actuator (use with Color Options in Selection 5A \& 5B)
AP1 Square with no frame
AP2 Square raised above frame
AP3 Square flush with frame
Plunger Actuator (use with Bushing Options in Selection 5)
PO Flush Plunger
Pl Standard Plunger
P2 Short Plunger

\section*{5A. ACTUATOR COLOR \& 5B FRAME COLOR}
```

1 White
2 Black
3 Red

```

\section*{5B. BUSHING}

B6 Unthreaded (for terminations VS6-VS9 only)
B10 \({ }^{1}\) Threaded keyway
BII \({ }^{2}\) Threaded with flat
B20 Unthreaded keyway
B21 Unthreaded with flat

\section*{6. TERMINATION}

M1 Solder Lug
M2 PCB
M51 Wire Wrap . 750 [19.05]
M52 Wire Wrap . 964 [24.40]
M53 Wire Wrap . 425 [10.80]
M6 PC Mount, \(90^{\circ}\) horizontal
M7 PC Mount, \(90^{\circ}\) vertical
VS2 PC Mount, U bracket, . 620" mounting x . \(461^{\prime \prime}\) height
VS3 PC Mount, U bracket, \(.620^{\prime \prime}\) mounting x .630 " height
VS4 PC Mount, U bracket, .750 " mounting \(x .461\) height
VS5 PC Mount, U bracket, .750 " mounting x. \(630^{\prime \prime}\) height
VS6 PC Mount, U bracket, 461 height (for B6 bushing only)
VS7 PC Mount, U bracket, .630 height (for B6 bushing only)
VS8 PC Mount, U bracket, .461 height (for B6 bushing only)
VS9 PC Mount, U bracket, .630 height (for B6 bushing only)

\section*{7. CONTACTS/TERMINALS}
\begin{tabular}{|c|c|c|c|}
\hline al & Terminal Plating & Rating & \\
\hline G silver & gold over silver & 1 A 125 VAC or 28VDC & \({ }_{c} \mathbf{N u s}^{\text {us, }}\) \\
\hline Q silver \({ }^{5}\) & silver 5 & 1 A 125 VAC or 28 VDC & \({ }_{c} \mathrm{NH}_{\text {us, }}\) \\
\hline R gold \({ }^{6}\) & gold \({ }^{6}\) & 0.4 VA max 20 V ma & /A \\
\hline
\end{tabular}

\section*{8. EPOXY SEAL}

E Epoxy Seal
0 without Epoxy Sea

Notes:
Hardware includes (2) 2Ml-HDW2 nuts, (1) 2Ml-HDWIl washer, and (1) 2Ml-HDW15 locking ring

Hardware includes (2) 2M1-HDW2 nuts, (1) 2Ml-HDWII washer, and (1) \(2 \mathrm{Ml}-\mathrm{HDW} 16\) locking ring

Selection 5B is blank if actuator style is API (no frame)
4 Black, white and red are standard. Other colors available, consult factory for details.
Movable contact \& terminal platings: silver over copper alloy
Movable contact \& terminal platings: gold over nickel over copper alloy

\footnotetext{
( Configure Complete Part Number >
* Browse Standard Parts >
}

\section*{Ordering Scheme}

3MA-Series with Square Actuator


\section*{3MN-Series with Plunger Actuator}


\section*{1. SERIES}

3MA Alternate Action Miniature Pushbutton Switch
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{2. POLES} \\
\hline \multicolumn{2}{|l|}{SP Single pole - uses terminals 1,2 \& 3} \\
\hline \multicolumn{2}{|l|}{DP Double pole uses terminals \(1,2,3,4,5\) \& 6} \\
\hline \multicolumn{2}{|l|}{3P 1 Three pole uses terminals \(1,2,3,4,5,6,7,8 \& 9\)} \\
\hline \multicolumn{2}{|l|}{4P Four pole uses terminals \(1,2,3,4,5,6,7,8,9,10,11,12\)} \\
\hline \multicolumn{2}{|l|}{3. CIRCUIT} \\
\hline \multicolumn{2}{|l|}{( ) - momentary} \\
\hline \multicolumn{2}{|l|}{Switching 1 2 3} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Position: 2-3, 5-6, 8-9, 11-12 Connected Terminals 2-1, 5-4, 8-7,11-10}} \\
\hline & NONE ON \\
\hline \multicolumn{2}{|l|}{2* ON NONE (ON)} \\
\hline \multicolumn{2}{|l|}{\({ }^{*}\) Available in SP \& DP only.} \\
\hline \multicolumn{2}{|l|}{4. ACTUATOR} \\
\hline \multicolumn{2}{|l|}{Square Actuator (use with Color Options in Selection 5A \& 5B)} \\
\hline \multicolumn{2}{|l|}{AP1 Square with no frame} \\
\hline AP2 Square raised above & ame \\
\hline \multicolumn{2}{|l|}{Plunger Actuator (use with Bushing Options in Selection 5)} \\
\hline \multicolumn{2}{|l|}{PA Standard Plunger} \\
\hline \multicolumn{2}{|l|}{PI Medium Plunger} \\
\hline \multicolumn{2}{|l|}{PL Brass Chrome Plunger} \\
\hline \multicolumn{2}{|l|}{PC Brass Chrome Plated Plunger with Cap (for BD bushing only)} \\
\hline PD Brass Chrome Plated & lunger (for BD bushing only) \\
\hline
\end{tabular}

5A. ACTUATOR COLOR \& 5B FRAME COLOR
\begin{tabular}{llllll|}
\(\mathbf{1}\) & White & \(\mathbf{4}\) & Orange & \(\mathbf{7}\) & Blue \\
\(\mathbf{2}\) & Black & \(\mathbf{5}\) & Yellow & \(\mathbf{8}\) & Brown \\
\(\mathbf{3}\) & Red & \(\mathbf{6}\) & Green & \(\mathbf{9}\) & Gray \\
\hline
\end{tabular}

\section*{5B. BUSHING}
```

BD 1 Big bushing for PC, PD actuator 15/32"
B10 2 Threaded 1/4-40
B20 Unthreaded
B21 Unthreaded with flat

```
```

6. TERMINATION
M1 Solder Lug
M2 PCB
M51 Wire Wrap . }75
M52 Wire Wrap.964
M53 Wire Wrap .425
M54 Wire Wrap 1.062
M6 PC Mount, 90' horizontal
M7 PC Mount, 90
VS2 PC Mount, U bracket,.620" mounting x .461" height
VS3 PC Mount, U bracket,.620" mounting x.630" height
VS4 PC Mount, U bracket,.750" mounting x.461" height
VS5 PC Mount, U bracket, .750" mounting x .630" height
```


\section*{8. EPOXY SEAL}

E Epoxy Seal 0 without Epoxy Seal
Notes:
Hardware includes (2) 2MI-HDW2 nuts, (1) 2MI-HDW12 washer, and (1) \(2 \mathrm{MI}-\mathrm{HDW} 17\) locking ring

Hardware includes (2) \(2 \mathrm{Ml}-\mathrm{HDW} 2\) nuts, (1) \(2 \mathrm{Ml}-H D W I I\) washer, and (1) \(2 \mathrm{MI}-\mathrm{HDW} 15\) locking ring

Tin option available with PC type terminations only.
Available with circuit 1 only
5 Black, white and red are standard. Other colors available, consult factory for details.
Selection 5B is blank if actuator style is API (no frame)
Movable contact \& terminal platings: silver over copper alloy
Movable contact \& terminal platings: gold over nickel over copper alloy
9 Terminal platings: tin over nickel over copper alloy, available for PC mount terminations only
© Configure Complete Part Number > Browse Standard Parts >

\section*{3M-Series Accessories}

To order a cap assembled on a switch, specify the switch number followed by the cap part number and the word "assembled". Ex: 3MN-SP-7-P2-B6-M6QE-Cl3ASSEMBLED. To order caps in bulk, specify the Series, followed by the cap. Ex: \(3 \mathrm{MN}-\mathrm{Cl} 3\)

\section*{Optional Cap \\ \begin{tabular}{|c|c|c|}
\hline Sample Part Number &  & \(\bigcirc\) \\
\hline Selection & 1 & 2 \\
\hline
\end{tabular}

\section*{1. SERIES}

3MN Fits 3 MN , 3MS or 3MA
2. PUSHBUTTTON CAP SIZE

C1 Round 8 mm diameter
C5 1 Round 15 mm diameter
C6 2 Brass Chrome Plated,
C2 Round 9.70 mm diameter
C3 Square \(11.7 \times 11.7 \mathrm{~mm}\)
C4 Round 5 mm diameter
3. CAP COLOR
\begin{tabular}{|llll}
\(\mathbf{1}\) & White & \(\mathbf{5}\) & Yellow \\
\(\mathbf{2}\) & Black & \(\mathbf{6}\) & Green \\
\(\mathbf{3}\) & Red & \(\mathbf{7}\) & Blue \\
\(\mathbf{4}\) & Orange & & \\
\hline
\end{tabular}

\section*{Notes}

1 For 3MA with PL Bushing
2 For 3MA with PD Bushing

\section*{Dimensional Specs}
inches [millimeters]

Single Pole Maintained Circuit



Double Pole Maintained Circuit


Double Pole Momentary Circuit

\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM. "A" \\
\hline PA & {\([4.00]\)} \\
\hline PB & {\([354\)} \\
\hline
\end{tabular}


Panel Mounting


15/32-32 UNS FLAT-CUT THREADED BUSHING

M1 Standard Solder Lug


Termination Options
M2 PC Thru-Hole


M5 Wire Wrap

6.

\section*{Dimensional Specs}
inches [millimeters]


Plunger Options

For B1 Bushing

\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM. "A" \\
\hline P1 & \begin{tabular}{c}
.181 \\
{\([4.60]\)}
\end{tabular} \\
\hline P2 & \begin{tabular}{c}
.228 \\
{\([5.80]\)}
\end{tabular} \\
\hline P3 & \begin{tabular}{c}
.087 \\
{\([2.20]\)}
\end{tabular} \\
\hline
\end{tabular}

For B4 Bushing

\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM. "A" \\
\hline P1 & .276 \\
& {\([7.00]\)} \\
\hline P2 & .323 \\
{\([8.20]\)} \\
\hline P3 & .181 \\
{\([4.60]\)} \\
\hline
\end{tabular}

\section*{Bushing Options}

B1



\section*{Dimensional Specs}
inches [millimeters]
Termination Options


VS2-vS3Single Pole


VS2-VS3Double Pole

\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS2 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vs3 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}
P.C.MOUNTING

8.

\section*{Dimensional Specs}
inches [millimeters]
vS4-VS5Single Pole


Termination Options

\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS4 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vS5 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}


VS4-VS5Double Pole

P.C.MOUNTING
\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS4 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vS5 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}


\section*{Snap-In Termination Options}


\footnotetext{
* PC Mounting for M61, M71, VS21, VS31, VS41, VS51 refer to M6, M7, VS2, VS3, VS4, VS5 respectively.
}
9.

\section*{Dimensional Specs}
inches [millimeters]


Plunger Options
For B1, B2, B3, B4 Bushing


For B6 Bushing

\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM. "A" \\
\hline P1 & \begin{tabular}{c}
.157 \\
{\([4.00]\)}
\end{tabular} \\
\hline P2 & \begin{tabular}{c}
.106 \\
{\([2.70]\)}
\end{tabular} \\
\hline
\end{tabular}

Actuator Options for Snap-In Front Mount


thk. panels.
PANEL MOUNTING


Increase this dimension to \(.620 / .625\)
\([15.75 / 15.88]\) for \(091 / .125[2.31 / 3.18]\)
thk. panels.
t.
then
then


PANEL MOUNTING

* Increase this dimension to. 620/.625 [15.75/15.88]] for \(0091 / 125\) [2.31/3.18]
thk. panels. thk. panels.

\section*{Bushing Options}

B3 Threaded Standard B4 Non-Threaded


B6 Non-Threaded
(FOR TERMINATION OPTIONS VS6-VS9 ONLY)


\section*{Dimensional Specs}
inches [millimeters]

11.

\section*{Dimensional Specs}
inches [millimeters]


Termination Options
\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS2 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vS3 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}
P.C.MOUNTING

VS4-VS5 Single Pole

P.C.MOUNTING
\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS4 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vS5 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}

\section*{VS4-VS5 Double Pole}

P.C.MOUNTING


\section*{VS6-VS7 Single Pole (FOR BG BUSHING ONLY)}

P.C.MOUNTING
\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS6 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vS7 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}


\section*{Dimensional Specs}
inches [millimeters]


\section*{Snap-In Termination Options}

VS21, VS31



VS41, VS51



\footnotetext{
* PC Mounting for VS21, VS31, VS41, VS51 refer to VS2, VS3, VS4, VS5 respectively.
}

\section*{Dimensional Specs}
inches [millimeters]

14.

\section*{Dimensional Specs}
inches [millimeters]

15.

\section*{Dimensional Specs}
inches [millimeters]

16.

\section*{Dimensional Specs}
inches [millimeters]

\section*{Termination Options}

VS4-VS5 Single Pole

P.C.MOUNTING
\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS4 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vS5 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}

vS4-VS5 Double Pole

P.C.MOUNTING
\begin{tabular}{|c|c|}
\hline \begin{tabular}{c} 
OPTION \\
CODE
\end{tabular} & DIM.'A' \\
\hline vS4 & \begin{tabular}{c}
.461 \\
{\([11.70]\)}
\end{tabular} \\
\hline vS5 & \begin{tabular}{c}
.630 \\
{\([16.00]\)}
\end{tabular} \\
\hline
\end{tabular}


Panel Mounting
1/4 INCH BUSHING
B10 B20


B21


BD
15/32 INCH BUSHING



Plunger Caps


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\section*{About Carling}

Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With six ISO9001 and IATF16949 registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

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[^0]:    Notes:
    Hardware includes (2) 2M1-HDW2 nuts, (1) 2M1-HDWII washer, and (1) 2MI-HDW15 ocking ring
    2 Movable contact and terminal platings: gold over nickel over copper alloy
    3 Movable contact and terminal platings: silver over copper alloy

