## COMMERCIAL \& MIL TOGGLE SWITCHES

## ENVIRONMENTALLY SEALED TOGGLE

The T9 Toggle Switch is an ideal switch for demanding applications. Qualified to MIL-DTL-3950, this high performance switch is a logical choice for use in environments where sealing and resistance to shock and vibration are required. The T9 is particularly suitable for applications in military, offhighway, aviation, commercial and industrial equipment. This compact, environmentally sealed switch is available in single and double pole configurations with a lever lockout option. Circuitry configurations include two or three positions with many combinations of OFF-ON in momentary and maintained action including ON-ON-ON.

## Features:

- Qualified to MIL-DTL-3950
- Commercial version is sealed per IP68S
- Lever lockout option available
- UL, CSA \& CE approvals (pending)
- Maintained \& momentary toggle action
- Optional panel seal
- RoHS/WEEE/Reach compliant
- Black matte finish available. Contact factory.


## T9 PART NUMBER CODE



Optional Panel Seal P/N 710196, MIL. P/N M5423/16-01

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## PRODUCT FAMILY TABLE

| Single Po | A THREAD .060 OF SURFACE <br> $\varnothing .240 \pm .005$ |  |  | $16.5^{\circ} \pm 5^{\circ}$ |  |  | $=-.25 \pm .02$ | Low lev |  |  | cial version only) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OTTO PART NO. | $\begin{gathered} \text { MILITARY } \\ \text { NO. } \end{gathered}$ | DASHNO. | CIRCUIT BY TOGGLE LEVER POSITION |  |  | ELECTRICAL RATINGS - SEA LEVEL \& 65,000 FT |  |  |  |  |  |
|  |  |  | KEYWAY | CENTER | $\begin{gathered} \text { OPP. KE YWAY } \\ 2-3 \end{gathered}$ | 28 VDC |  |  | 115 VAC |  |  |
|  |  |  | 1-2 |  |  | LAMP | RESISTIVE | INDUCTIVE | LAMP | RESISTIVE | INDUCTIVE |
| T9-MSI- | MS24523- | 21 | ON | OFF | ON | 5 | 20 | 15 | 3 | 15 | 10 |
|  |  | 22 | OFF | NONE | ON |  |  |  |  |  |  |
|  |  | 23 | ON | NONE | ON |  |  |  |  |  |  |
|  |  | 24 | NONE | OFF | ON |  |  |  |  |  |  |
|  |  | 25 | NONE | MOM OFF | ON | 4 | 15 | 10 | 2 | 15 | 7 |
|  |  | 26 | MOM ON | NONE | ON |  |  |  |  |  |  |
|  |  | 27 | MOM ON | OFF | MOM ON |  |  |  |  |  |  |
|  |  | 28 | MOM ON | OFF | NONE |  |  |  |  |  |  |
|  |  | 29 | MOM OFF | NONE | ON |  |  |  |  |  |  |
|  |  | 30 | MOM ON | NONE | OFF |  |  |  |  |  |  |
|  |  | 31 | MOM ON | OFF | ON |  |  |  |  |  |  |
| OTTO | MILITARY |  | KE YWAY | CENTER | $\begin{gathered} \text { OPP. KE YWAY } \\ 2-3 \end{gathered}$ | 28 VDC |  |  | 115 VAC |  |  |
| PART NO. | NO. | NO. |  | 1-2 |  | LAMP | RESISTIVE | INDUCTIVE | LAMP | RESISTIVE | INDUCTIVE |
| T9-MSI - | MS24523- | 32 | NONE | ON | MOM ON | 4 | 15 | 10 | 2 | 15 | 7 |
|  |  | 33 | NONE | ON | ON | 5 | 20 | 15 | 3 | 15 | 10 |

## Lever/Lock Single Pole




| $\begin{aligned} & \text { OTTO BASE } \\ & \text { PART NO. } \end{aligned}$ | $\begin{aligned} & \text { MILITARY } \\ & \text { NO. } \end{aligned}$ | $\begin{aligned} & \text { DASH } \\ & \text { NO. } \end{aligned}$ | $\begin{gathered} \text { AVAILABLE } \\ \text { (SOCKOUTS } \\ \text { (SEE CHART) } \end{gathered}$ | CIRCUIt by toggle lever position |  |  | ELECTRICAL RATINGS - SEA LEVEL \& 65,000 FT |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{gathered} \text { KEYWAY } \\ 1-2 \end{gathered}$ | CENTER | $\begin{gathered} \text { OPP. KEYWAY } \\ 2-3 \end{gathered}$ | 28 VDC |  |  | 115 VAC |  |  |
|  |  |  |  |  |  |  | LAMP | RESISTIVE | Inductive | LAMP | RESISTIVE | INDUCTIVE |
| T9-MSI- | MS24658- | 21 | ALL | ON | OFF | ON | 5 | 20 | 15 | 3 | 15 | 10 |
|  |  | 22 | D F G | OFF | NONE | ON |  |  |  |  |  |  |
|  |  | 23 | D F G | ON | NONE | ON |  |  |  |  |  |  |
|  |  | 24 | E F K M | NONE | OFF | ON |  |  |  |  |  |  |
|  |  | 25 | F | NONE | OFF (M) | ON | 4 | 15 | 10 | 2 | 15 | 7 |
|  |  | 26 | F | MOM ON | NONE | ON |  |  |  |  |  |  |
|  |  | 27 | E L N | MOM ON | OFF | MOM ON |  |  |  |  |  |  |
|  |  | 28 | , | MOM ON | OFF | NONE |  |  |  |  |  |  |
|  |  | 29 | F | MOM OFF | NONE | ON |  |  |  |  |  |  |
|  |  | 30 | F | MOM ON | NONE | OFF |  |  |  |  |  |  |
|  |  | 31 | E F K L M N | MOM ON | OFF | ON |  |  |  |  |  |  |
| OTTO | MILITARY | DASH | AVAILABLE lOCKOUT | KEYWAY | CENTER |  | 28 VDC |  |  | 115 VAC |  |  |
| BASE NO. | NO. | NO. |  |  | 1-2 | $2-3$ | LAMP | RESISTIVE | Inductive | LAMP | RESISTIVE | INDUCTIVE |
|  | MS24658- | 32 | K | NONE | ON | MOM ON | 4 | 15 | 10 | ? | 15 | 7 |
| T9-MSI- |  | 33 | E F K M | NONE | ON | ON | 5 | 20 | 15 | 3 | 15 | 10 |

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## Double Pole



| Low level $10 \mathrm{~mA} @ 30 \mathrm{mV}$ (commercial version only) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { OTTO BASE } \\ & \text { PART NO. } \end{aligned}$ | MILITARY STANDARD | $\begin{array}{\|l} \text { DASH } \\ \text { NO. } \end{array}$ | CIRCUIT CONFIGURATION |  |  | ELECTRICAL CURRENT RATINGS (AMPS) - SEA LEVEL \& 65,000 FT |  |  |  |  |  |  |
|  |  |  | $\begin{gathered} \text { KEYWAY } \\ 1-2 / 4-5 \\ \hline \end{gathered}$ | CENTER | $\begin{aligned} & \hline \text { OPP. KE YWAY } \\ & 2.3 / 5-6 \end{aligned}$ | 28 VDC |  |  | $115 \mathrm{VAC}, 60 \mathrm{~Hz} 8400 \mathrm{~Hz}$ |  |  |  |
|  |  |  |  |  |  | LAMP | RESISTIVE | INDUCTIVE | LAMP | RESISTIVE | INDUCTIVE |  |
| T9-MS2-01 | MS27407- | 1 | ON | 2-3 ON 4-5 | ON | 7 | 20 | 15 | 4 | 15 | 15 |  |
| T9-MS2-02 |  | 2 | MOM ON | 2-3 ON 4-5 | ON | 5 | 18 | 10 | 2 | 11 | 8 |  |
| T9-MS2-03 |  | 3 | MOM ON | 2-3 ON 4-5 | MOM ON |  |  |  |  |  |  |  |
| T9-MS2-04 |  | 4 | ON | 1-2 ON 5-6 | ON | 7 | 20 | 15 | 4 | 15 | 15 |  |
| T9-MS2-05 |  | 5 | MOM ON | 1-2 ON 5-6 | ON | 5 | 18 |  |  | 1 |  |  |
| T9-MS2-06 |  | 6 | MOM ON | 1-2 ON 5-6 | MOM ON |  |  |  |  |  |  | $4$ |
| T9-MS2- | MS24524- | 21 | ON | OFF | ON | 7 | 20 | 15 | 4 | 15 | 15 |  |
|  |  | 22 | OFF | NONE | ON |  |  |  |  |  |  |  |
|  |  | 23 | ON | NONE | ON |  |  |  |  |  |  |  |
|  |  | 24 | NONE | OFF | ON |  |  |  |  |  |  |  |
|  |  | 25 | NONE | MOM OFF | ON | 5 | 18 | 10 | 2 | 11 | 8 |  |
|  |  | 26 | MOM ON | NONE | ON |  |  |  |  |  |  |  |
|  |  | 27 | MOM ON | OFF | MOM ON |  |  |  |  |  |  |  |
|  |  | 28 | MOM ON | OFF | NONE |  |  |  |  |  |  |  |
|  |  | 29 | MOM OFF | NONE | ON |  |  |  |  |  |  |  |
|  |  | 30 | MOM ON | NONE | OFF |  |  |  |  |  |  |  |
|  |  | 31 | MOM ON | OFF | ON |  |  |  |  |  |  |  |
| OTTO BASE | MILITARY | DASH | KEYWAY | CENTER | OPP. KEYWAY | 28 VDC |  |  | 115 VAC |  |  |  |
| PART NO. | STANDARD | NO. |  | 1-2/4-5 | $2.3 / 5.6$ | LAMP | RESISTIVE | INDUCTIVE | LAMP | RESISTIVE | INDUCTIVE |  |
| T9-MS2- | MS24524- | 32 | NONE | ON | MOM ON | 5 | 18 | 10 | 2 | 11 | 8 |  |
|  |  | 33 | NONE | ON | ON | 7 | 20 | 15 | 4 | 15 | 15 |  |



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