## : ©hipsmall

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## 3500 series

High performance toggle switches • environmentally sealed

## DISTINCTIVE FEATURES

Completely sealed switches withstanding 0.1 bar pressure Approved to European standards CECC 96000
Three types of terminals
Many lever styles available

ENVIRONMENTAL SPECIFICATIONS

- Front sealing to IP67 or IP69K by a silicone membrane (for sealed panel mounting, add washer U60).
- Rear sealing to IP64 provided by moulded-in terminal inserts
- Operating temperature : $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$
- Moisture resistance : 56 days


## (4) <br> ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load and electrical life at full load: see table below
- Initial contact resistance : $10 \mathrm{~m} \Omega$ max. at 1 A 2 VDC
- Insulation resistance : 1,000 M $\Omega$
- Dielectric strength : $2,500 \mathrm{Vrms} 50 \mathrm{~Hz}$ min. between terminals 3,000 Vrms 50 Hz min. between terminals and frame

FUNCTIONS
GENERAL PERFORMANCES
ON-OFF
and
ON-ON

ON OFF ON

OTHER FUNCTIONS

> 10,000 cycles, $\mathrm{T} 20^{\circ} \mathrm{C}$ 15 A 28 VDC resistive 15 A 28 VDC inductive 5 A 28 VDC lamp

10,000 cycles, $\mathrm{T}_{20}{ }^{\circ} \mathrm{C}$
15 A 28 VDC resistive
15 A 28 VDC inductive 5 A 28 VDC lamp

10,000 cycles, $\mathrm{T} 20^{\circ} \mathrm{C}$ 15 A 28 VDC resistive 10 A 28 VDC inductive 3 A 28 VDC lamp

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## GENERAL SPECIFICATIONS

- Mechanical life : 40,000 cycles
- Torque : 2 Nm (1.47 Ft.Ib) max. applied to nut
- Panel thickness :

For NON-SEALED mounting (panel cut-out fig. 1, 2 or 3) 5 mm (.196) max.
For SEALED mounting (panel cut-out fig. 2) 4 mm (.157) max.

## MATERIALS

- Case : mineral filled polyester UL94-V0
- Bushing and cover: zamac
- Actuator : brass, nickel or chrome plated, or anodized aluminum
- Contacts : silver alloy


## AGENCY APPROVAL

CECC 96201-004

Availability : consult factory for details of approved models. Marking : to order switches marked CECC, complete appropriate box of ordering format.

## (ii) TERMINALS



## (4) ELECTRICAL FUNCTIONS

$\rightarrow$ KEYWAY


PANEL CUT-OUT


Figure 1


Figure 2


Figure 3

## 5 <br> BUILD YOUR PART NUMBER

## BASIC PART NUMBER

35

SERIES
NUMBER OF POLES

| 3 | Single pole |
| :--- | :--- |
| 4 | Double pole |


| 1-0 | ON |  | OFF | 4-6 | MOM | ${ }^{1} \mathrm{ON}{ }^{6}$ | MOM $\triangle$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2-0 | ON |  | m.OFF | 5-0 | ON | - | мом |
| 3-0 | OFF | - | мом | 6-0 | ON | - | ON |
| 4-1 | ON | ${ }^{3} \mathrm{ON}{ }^{4}$ | ON4 | 7-0 | мом | OFF | мом |
| 4-2 | ON | ${ }^{3} \mathrm{ON}{ }^{4}$ | MOM $\triangle$ | 8-0 | ON | OFF | мом |
| 4-3 | MOM | ${ }^{3} \mathrm{ON}{ }^{4}$ | MOM $\triangle$ | 9-0 | ON | OFF | ON |
| 4-4 | ON | ${ }^{1} \mathrm{ON}{ }^{6}$ | ON $\triangle$ | © Function 4 : double pole only |  |  |  |
| 4-5 | ON | ${ }^{1} \mathrm{ON}{ }^{6}$ | MOM $\triangle$ |  |  |  |  |

## TERMINALS




LEVER FINISH


AGENCY APPROVAL
0 None
1 CECC

LOCKING LEVER SPECIAL FINISH

| (blank) | None |
| :---: | :--- |
| P5 | Painted yellow |
| A6 | Anodized red |

Order with lever finish type C. Other colors : on request.

## LEVER STYLES

Standard, length 17.5 mm (.688) or locking, length 20 mm (.787)

Length 30 mm (1.181)
Flatted, length 24 mm (.944)
Length $40 \mathrm{~mm}(1,574)$
Length 50 mm (1.968)
Locking, length 25.4 mm (1.000)

LEVER LOCKING STYLES

| O | No locking |
| :---: | :--- |
| A | Locked in 3 <br> positions |
| D | Locked out of <br> center position |
| G | Locked in keyway <br> side |

See drawings on the following pages.

## ACCESSORIES

2 hex nuts, 1 locking
0 ring and 1 lockwasher (non-sealed mounting)

2 hex nuts and 1
2 sealing washer (sealed mounting)

## (4) ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.
(1) Notice : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
(0) Switch guards are available to prevent inadvertent lever operation. See "Switch Guards" section of website.
(B) Mounting accessories : see above and on the following pages.

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| SCREW TERMINALS SINGLE POLE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Angle of throw (A) | $\stackrel{\text { III }}{\text { A2-A3 }}$ | II | $\mathrm{A} 1-\mathrm{A} 2$ |
|  | 3531-00 | $22^{\circ}$ | ON | - | OFF |
|  | 3532-00 | $22^{\circ}$ | ON | - | m.OFF |
|  | 3533-00 | $22^{\circ}$ | OFF | - | MOM |
|  | 3535-00 | $22^{\circ}$ | ON | - | MOM |
|  | 3536-00 | $22^{\circ}$ | ON | - | ON |
|  | 3537-00 | $22^{\circ}$ | MOM | OFF | MOM |
|  | 3538-00 | $30^{\circ}$ | ON | OFF | MOM |
|  | 3539-00 | $30^{\circ}$ | ON | OFF | ON |

SCREW TERMINALS

DOUBLE POLE


| Angle of throw (A) | $\begin{aligned} & \text { III } \\ & \text { A2-A3 } \\ & \text { B5-B6 } \end{aligned}$ | $\begin{gathered} \text { II } \\ { }^{*} \text { "A3-B5 } \\ \text { *A1-B5 } \end{gathered}$ | $\begin{array}{r} 1 \\ \text { A1-A2 } \\ \text { B5-B4 } \end{array}$ |
| :---: | :---: | :---: | :---: |
| $22^{\circ}$ | ON | - | OFF |
| $22^{\circ}$ | ON | $\mathrm{ON}^{*}$ | ON |
| $22^{\circ}$ | ON | ON* | MOM |
| $22^{\circ}$ | MOM | ON* | MOM |
| $22^{\circ}$ | ON | - | MOM |
| $22^{\circ}$ | ON | - | ON |
| $22^{\circ}$ | MOM | OFF | MOM |
| $30^{\circ}$ | ON | OFF | MOM |
| $30^{\circ}$ | ON | OFF | ON |

Shown with standard lever

$\longrightarrow$ KEYWAY


Also available in functions ON-m.OFF and OFF-MOM.

## $\longrightarrow$ KEYWAY


$\rightarrow$ KEYWAY


[^0]*and** : A2-B4 and A2-B6 = jumper to be wired by the user.

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NORMALIZED QUICK-CONNECT TERMINALS

|  |  | Angle of throw (A) | $\stackrel{\text { III }}{\text { A2-A3 }}$ | \\| | $\text { A1-A }{ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3531-03 | $22^{\circ}$ | ON | - | OFF |
|  | 3532-03 | $22^{\circ}$ | ON | - | m. OFF |
|  | 3533-03 | $22^{\circ}$ | OFF | - | MOM |
|  | 3535-03 | $22^{\circ}$ | ON | - | MOM |
|  | 3536-03 | $22^{\circ}$ | ON | - | ON |
|  | 3537-03 | $22^{\circ}$ | MOM | OFF | MOM |
|  | 3538-03 | $30^{\circ}$ | ON | OFF | MOM |
|  | 3539-03 | $30^{\circ}$ | ON | OFF | ON |

$\rightarrow$ KEYWAY
Shown with standard lever

$\longrightarrow$ KEYWAY


Also available in functions ON-m.OFF and OFF-MOM.
*and** : A2-B4 and A2-B6 = jumper to be wired by the user.

NORMALIZED QUICK-CONNECT TERMINALS


| Angle of | III | II | I |
| :---: | :--- | :---: | ---: |
| throw (A) | A2-A3 | ${ }^{*}$ A3-B5 | A1-A2 |
| $22^{\circ}$ | ON | **A1-B5 | B5-B4 |
| $22^{\circ}$ | ON | - | OFF |
| $22^{\circ}$ | ON | ON $^{*}$ | ON |
| $22^{\circ}$ | MOM | ON $^{*}$ | MOM |
| $22^{\circ}$ | ON | - | MOM |
| $22^{\circ}$ | ON | - | ON |
| $22^{\circ}$ | MOM | OFF | MOM |
| $30^{\circ}$ | ON | OFF | MOM |
| $30^{\circ}$ | ON | OFF | ON |






1
Standard


2


3


4


5


6

## 3500 series

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## LEVER FINISH

BASIC P/N


N Bright nickel * Black finish on bushing too.
B Satin chrome
G* Black
F* Black with fluorescent tip (available with lever type 1 only)
C Painted or anodized (for locking lever only)

## LOCKING LEVER STYLES

BASIC P/N $\square$
$0 \quad$ No locking
A Locked in 3 positions. For functions 4-1, 4-4 and 9-0.
D Locked out of center position. For functions 1-0 and 6-0.
G Locked in keyway. For functions 1-0 and 6-0.

## AGENCY APPROVAL

BASIC P/N
$0 \quad$ None
1 CECC

MOUNTING ACCESSORIES

BASIC P/N
$0 \quad$ For NON-SEALED mounting (panel cut-out fig. 1, 2 or 3)
2 hex nuts $14 \mathrm{~mm}(.551)$ across flats, 1 locking ring U121 or U12, 1 lockwasher U13
Panel thickness : 5 mm (196) max.
2 For SEALED mounting (panel cut-out fig. 2)
2 hex nuts $14 \mathrm{~mm}(.551)$ across flats and 1 sealing washer U60
Panel thickness : 4 mm (.157) max.
Special hardware : black cap nut U129. Order separately. See "Hardware" section of website.

## LOCKING LEVER <br> SPECIAL FINISH

BASIC P/N
(blank) None
P5 Painted yellow
A6 Anodized red

Order with lever finish type C.
Other colors on request.


[^0]:    Also available in functions ON-m.OFF and OFF-MOM.

