CT series

Sealed toggle switches - flat case

DISTINCTIVE FEATURES

Completely sealed switching chamber
Flat case
UL approved

ENVIRONMENTAL SPECIFICATIONS

• Front sealing to IP67.

• Operating temperature : -40 °C to + 85 °C (-40 °F to +185 °F)

ELECTRICAL SPECIFICATIONS

• Max. current/voltage rating with resistive load and electrical life at full load: see table below

• Initial contact resistance : 50 mΩ max.

• Insulation resistance : 1,000 MΩ min at 500VDC

• Dielectric strength : 2,500 Vrms 50 Hz min. between terminals
  3,000 Vrms 50 Hz min. between terminals and frame

ELECTRICAL RATING AND LIFE		
FUNCTIONS	DIRECT CURRENT	UL
ON-OFF and ON-ON	10,000 cycles 15 A 28 VDC resistive 5 A 28 VDC lamp load	10 A 125/250 VAC according to UL 61058-1 and CAN/CSA-C22.2 NO. 61058-1:17
OTHER FUNCTIONS	10,000 cycles 15 A 28 VDC resistive 3 A 28 VDC lamp load	

GENERAL SPECIFICATIONS

• Mechanical life : 40,000 cycles

• Torque : 2 Nm (1.47 Ft.lb) max. applied to nut

• Panel thickness : see "Mounting Accessories" on the following pages

The company reserves the right to change specifications without notice.

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MATERIALS

- Case : phenolic resin UL94-V0
- Bushing and cover : zamac
- Actuator : bright nickel or Polyamid
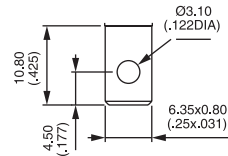- Contacts : silver alloy

AGENCY APPROVAL

c **UL** US   File E83438

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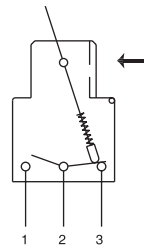
TERMINALS

Ø3.10
(.122DIA)

10.80
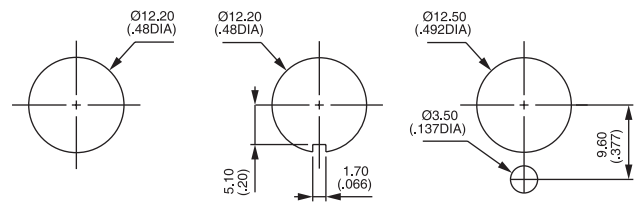(.425)

4.50
(.177)

6.35x0.80
(.25x.031)

Solder lug/quick connect

ELECTRICAL FUNCTIONS

→ KEYWAY

1   2   3

PANEL CUT-OUT

Ø12.20
(.48DIA)

Ø12.20
(.48DIA)

Ø12.50
(.492DIA)

Ø3.50
(.137DIA)

5.10
(.20)

1.70
(.066)

9.60
(.377)

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

CT	___	___	___

SERIES | **NUMBER OF POLES** | **ELECTRICAL FUNCTIONS** | **TERMINALS*** |

NUMBER OF POLES

2	Single pole
5	Double pole

ELECTRICAL FUNCTIONS

1-0	ON	-	OFF
2-0	ON	-	m.OFF
3-0	OFF	-	MOM
4-1	ON	^{3}ON^4	ON ▲
4-2	ON	^{3}ON^4	MOM ▲
4-3	MOM	^{3}ON^4	MOM ▲

5-0	ON	-	MOM
6-0	ON	-	ON
7-0	MOM	OFF	MOM
8-0	ON	OFF	MOM
9-0	ON	OFF	ON

▲ Function 4 : double pole only

TERMINALS*

6	Solder lug/ quick-connect

OPTIONS

___	___	___	___	___

LEVER STYLES | **LEVER FINISH** | **LEVER LOCKING** | **AGENCY APPROVAL** | **ACCESSORIES**

LEVER STYLES

1	Standard, length 17.5 mm (.688)
9	Plastic paddle, length 22.7 mm (.893)

LEVER FINISH

N	Bright nickel, for lever 1
2	Black, for lever 9
4	Grey, for lever 9
5	Yellow, for lever 9

LEVER LOCKING

0	No locking

AGENCY APPROVAL

0	None
2	UL

ACCESSORIES

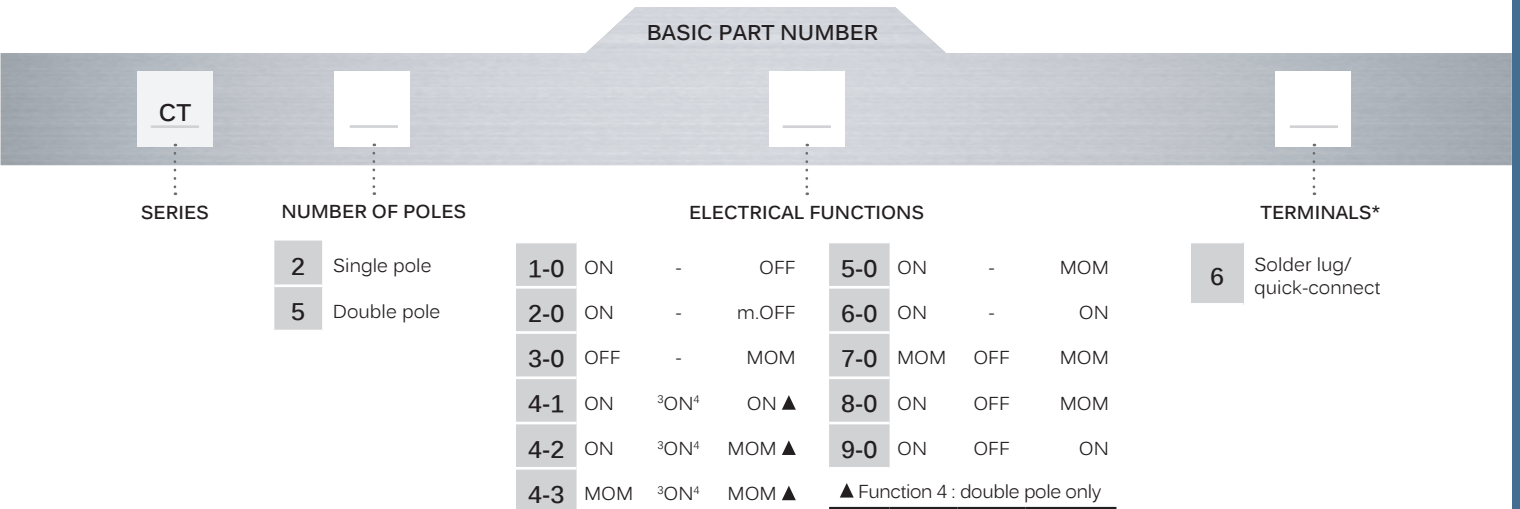| 0	2 hex nuts, 1 locking ring and 1 lockwasher
2	2 hex nuts and 1 sealing washer

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.

Notice : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

Switch guards are available to prevent inadvertent lever operation. On request.

Dimensions: first dimensions are in mm while inches are shown as bracketed numbers.

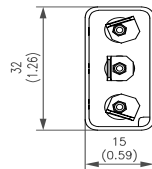*Packaging unit : 15 pieces for solder lug/quick-connect (6)

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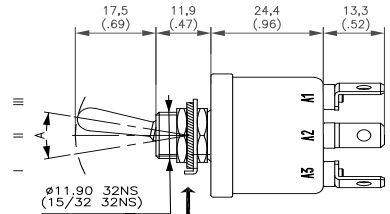
SOLDER LUGS AND QUICK-CONNECT TERM. SINGLE POLE

	Angle of throw (A)	III A2-A3	II	I A1-A2
CT21-06	22°	ON	-	OFF
CT22-06	22°	ON	-	m.OFF
CT23-06	22°	OFF	-	MOM
CT25-06	22°	ON	-	MOM
CT26-06	22°	ON	-	ON
CT27-06	30°	MOM	OFF	MOM
CT28-06	30°	ON	OFF	MOM
CT29-06	30°	ON	OFF	ON

→ KEYWAY

Shown with standard lever

17,5 (.69) 11,9 (.47) 24,4 (.96) 13,3 (.52)
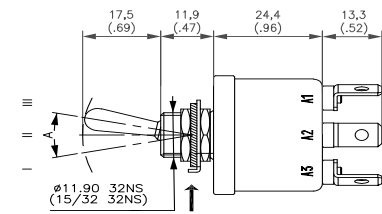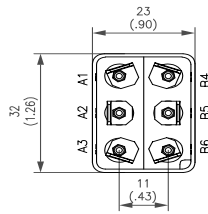
32 (1.26)   15 (0.59)

Ø11,90 32NS (15/32 32NS)

A1 A2 A3

SOLDER LUGS AND QUICK-CONNECT TERM. DOUBLE POLE

	Angle of throw (A)	III A2-A3 B5-B6	II *A3-B5 **A1-B5	I A1-A2 B5-B4
CT41-00	22°	ON	-	OFF
CT44-10	30°	ON	ON*	ON
CT44-20	30°	ON	ON*	MOM
CT44-30	30°	MOM	ON*	MOM
CT45-00	22°	ON	-	MOM
CT46-00	22°	ON	-	ON
CT47-00	30°	MOM	OFF	MOM
CT48-00	30°	ON	OFF	MOM
CT49-00	30°	ON	OFF	ON

→ KEYWAY

23 (.90)

32 (1.26)

A1 A2 A3 B4 B5 B6

11 (.43)

17,5 (.69) 11,9 (.47) 24,4 (.96) 13,3 (.52)

Ø11,90 32NS (15/32 32NS)

A1 A2 A3

LEVER STYLES

BASIC P/N

Ø6.00 (.236DIA)

17.50 (.688)

1 Standard
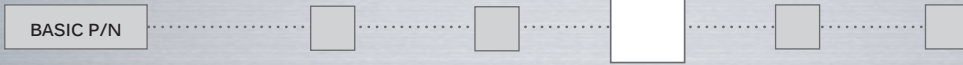
8.10 (.398)   8.90 (.350)
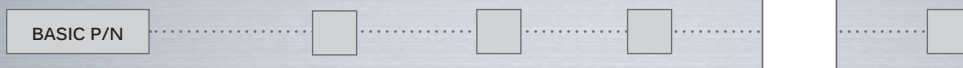
22.70 (.893)
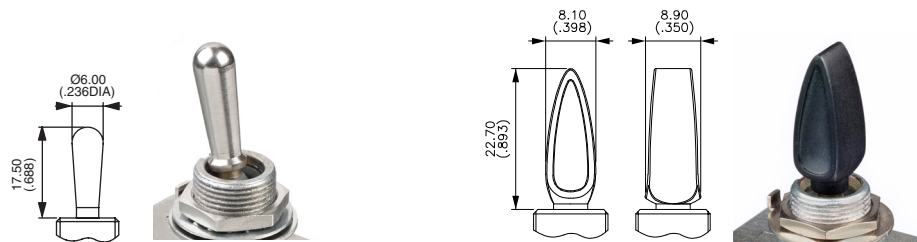
9 Plastic paddle

LEVER FINISH

BASIC P/N

N   Bright nickel (for lever 1 only)
2   Black (for lever 9 only)
4   Grey (for lever 9 only)
5   Yellow (for lever 9 only)

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LOCKING LEVER STYLES

| BASIC P/N |

0   No locking

AGENCY APPROVAL

| BASIC P/N |

0   None
2   UL

APEM has the ability to develop custom configurations. Please contact us with your requirements.

MOUNTING ACCESSORIES

| BASIC P/N |

0   For NON-SEALED mounting (panel cut-out fig. 1, 2 or 3)
         2 hex nuts 14 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 mm (.551) across flats and 1 sealing washer U60
         Panel thickness : 4 mm (.157) max.

Special hardware : black cap nut U129. Order separately.

Ø12.20 (.48DIA)   Ø12.20 (.48DIA)   Ø12.50 (.492DIA)
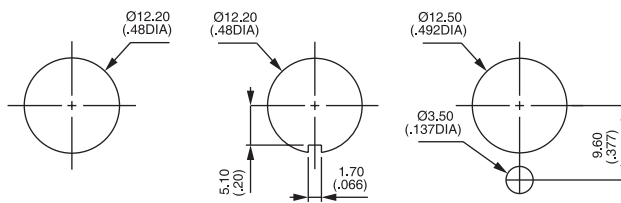
Ø3.50 (.137DIA)

5.10 (.20)   1.70 (.066)   9.60 (.377)

Figure 1   Figure 2   Figure 3