



Feature -

- small size
- bi-color LED illuminated available
- long electrical life cycles

Application -

- consumer products
- computer products
- instrumentation
- communication equipments

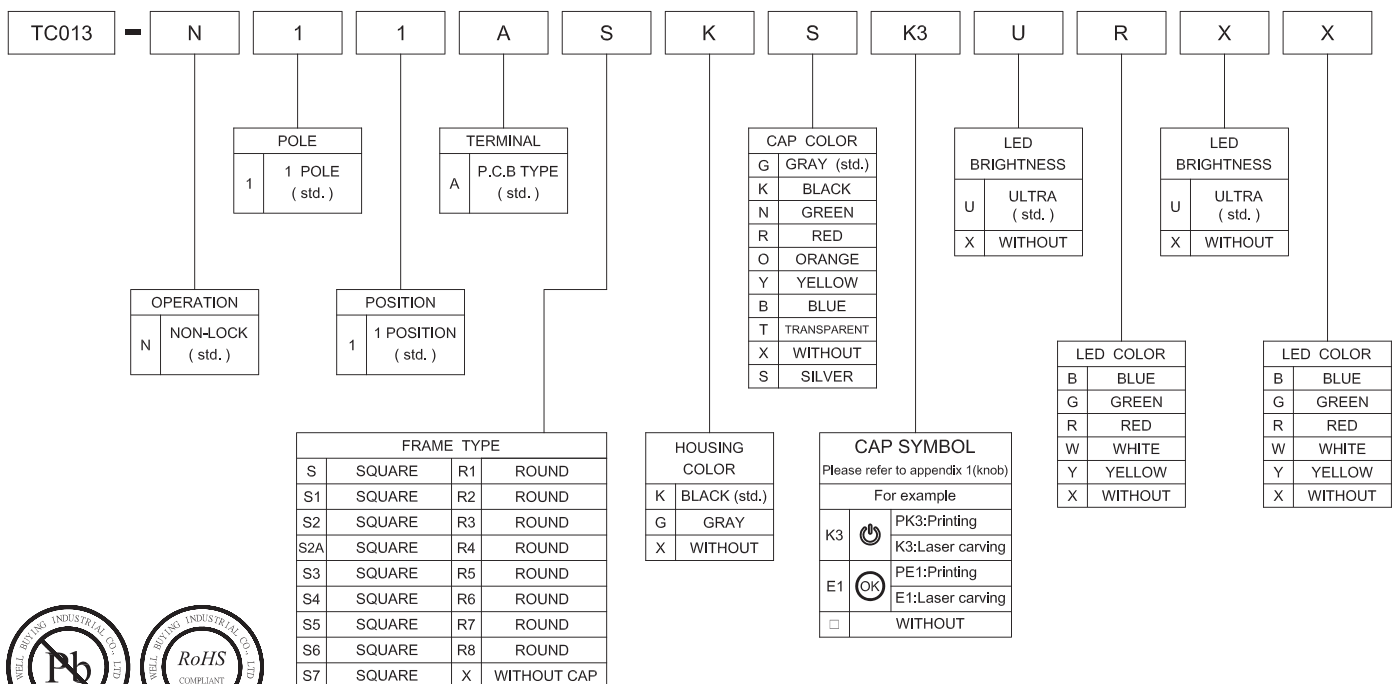
► SPECIFICATIONS

SWITCH SPECIFICATIONS	
POLE - POSITION	1P1T , with LED
CONTACT RATING	12 V DC , 50 mA
CONTACT RESISTANCE	100 mΩ MAX. 1.5 V DC ; 100 mA , by Method of Voltage DROP
INSULATION RESISTANCE	100 MΩ MIN. 500 V DC
DIELECTRIC STRENGTH	Breakdown is not Allowable ; 500 V AC for 1 Minute
OPERATING FORCE	180 ± 50 gf
OPERATING LIFE	500,000 cycles
OPERATING TEMPERATURE RANGE	-20°C ~ 70°C
TOTAL TRAVEL	0.2 ± 0.1 mm

LED SPECIFICATIONS		Unit	Value / LED Color				
			Blue	Green	Red	White	Yellow
ATTENTION	LEDs are Electrostatic Sensitive devices						
FORWARD CURRENT	If	mA	10	20	20	2	20
REVERSE VOLTAGE	Vr	V	5.0	5.0	5.0	5.0	5.0
REVERSE CURRENT	Ir	μA	10	10	10	10	10
FORWARD VOLTAGE	Vf	V	@ 10mA 3.0-4.0	2.1-2.5	2.0-2.5	@ 2mA 2.8-4.0	2.0-2.5
LUMINOUS INTENSITY	Iv	mcd	@ 10mA 200	800	1800	@ 2mA 12	1800

■ Physical and electrical information of LED will be provided upon customer's request on switches .

► HOW TO ORDER



▶ FRAME TYPE OPTION

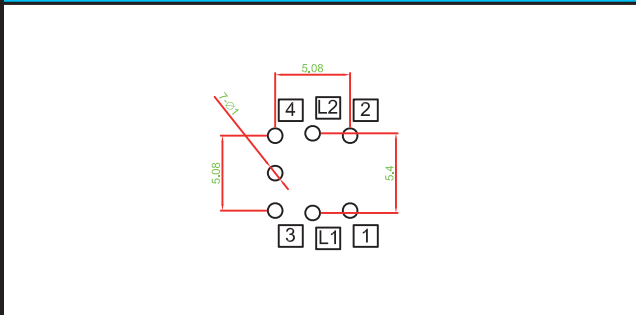
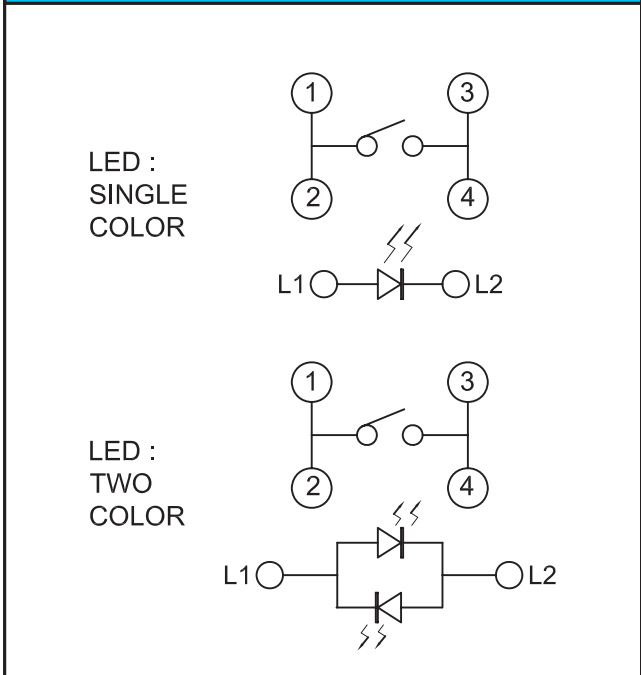
<p style="text-align: center;">TC013-N11AXXX□□□□</p>	<p style="text-align: center;">TC013-N11ASXK□□□□</p>
<p style="text-align: center;">TC013-N11ASKK□□□□</p>	<p style="text-align: center;">TC013-N11AS1XX□□□□</p>
<p style="text-align: center;">TC013-N11AS1KT□□□□</p>	<p style="text-align: center;">TC013-N11AS2KW□□□□</p>
<p style="text-align: center;">TC013-N11AS2AKW□□□□</p>	<p style="text-align: center;">TC013-N11AS3XW□□□□</p>

▶ **FRAME TYPE OPTION**

<p>TC013-N11AS4XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the blue switch. Dimensions include: top width 18.6, top length 16.9, top thickness 5, side height 9.5, base width 7, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a blue rectangular top.</p>	<p>TC013-N11AS5XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the green switch. Dimensions include: top width 13.7, top length 9.6, top thickness 7.5, side height 9.5, base width 6, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a green rectangular top.</p>
<p>TC013-N11AS6XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the yellow switch. Dimensions include: top width 11.2, top length 7, top thickness 3.6, side height 6.5, base width 6, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a yellow square top.</p>	<p>TC013-N11AS7XW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the red switch. Dimensions include: top width 13, top length 11.5, top thickness 9.6, side height 6.5, base width 7, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a red rectangular top.</p>
<p>TC013-N11AR1KW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the green cylindrical switch. Dimensions include: top diameter $\phi 10$, top diameter $\phi 8$, top thickness 1.4, side height 8.5, base diameter $\phi 7.6$, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a green cylindrical top.</p>	<p>TC013-N11AR2KW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the blue cylindrical switch. Dimensions include: top diameter $\phi 8.5$, top diameter $\phi 7$, top thickness 1.4, side height 6.5, base diameter $\phi 7.6$, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a blue cylindrical top.</p>
<p>TC013-N11AR3KW□□□□</p> <p>Technical drawings showing top, side, and bottom views of the red cylindrical switch. Dimensions include: top diameter $\phi 12.6$, top diameter $\phi 10$, top thickness 7.7, side height 6, base diameter $\phi 7.6$, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a red cylindrical top.</p>	<p>TC013-N11AR4XKK3</p> <p>Technical drawings showing top, side, and bottom views of the yellow cylindrical switch. Dimensions include: top diameter $\phi 12.6$, top diameter $\phi 15$, top thickness 7.7, side height 6, base diameter $\phi 7.6$, base length 5.4, base thickness 0.3, and mounting hole diameter 0.4. A 3D model shows a yellow cylindrical top.</p>

▶ FRAME TYPE OPTION

<p style="text-align: center;">TC013-N11AR5KW□□□□</p>	<p style="text-align: center;">TC013-N11AR6KW□□</p>
<p style="text-align: center;">TC013-N11AR7KW□□□□ (ODM)</p>	<p style="text-align: center;">TC013-N11AR8KW□□ (ODM)</p>

▶ CIRCUIT ▶ P.C.B LAYOUT

▶ MATERIAL

- COVER : PA
- ACTUATOR : PA + GF
- BASE FRAME : PA + GF
- TERMINAL : BRASS SILVER PLATING

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
B	A	B	C	D	E	F	G	H	I	J	CH5	CH6	DSK	PIP	Q-KEY	CUT	TAKE	REC	ENG	PROD
C	K	L	M	N	O	P	Q	R	S	T	REPLAY	RET1	RET2	KEY ON	AUTO TAKE	A1	A2	A3	A4	0
D	U	V	W	X	Y	Z	POWER	ON OFF	ON	OFF	USER A	USER B	USER C	USER D	USER E	USER F	USER G	USER H	USER I	
E	OK	OK	Auto	Enter	Start	STOP	OPEN	CLOSE	Exit	Move	USER J	↶	✕	☐	⏮	⏪	⏩	⏭	M-1	⏪
F	SET	Reset	Light	Alarm	Menu	Next	Back	Delete	Motor	Save	⏪	⏩	⏮	⏭	✓1	✓2	☰	↑	↶	↷
G	Up	Down	Right	Left	Test	End	Insert	Lock	Print	+/-	⏪	⏩	☐	☐	☐	☐	☐	☐	☐	☐
H	ESC	BC.	HOME	Health	D-LED 2	OC GENIE	VIDEO INPUT	clr CMOS	Green Power	Save OK										
I	B/R +	Undo Cancel	T/L	F1	F2	F3	F4	F5	F6	F7										
J	F8	F9	F10	F11	F12	F13	F14	IN 1	IN 2	IN 3										
K	IN 4	IN 5	IN 6	⏪	⏩	⏮	⏭	⏪	⏩	⏮										
L	+	-	×	÷	=	↑	→	▲	▶	▶										
M	⏪	⏩	⏮	⏭	⏪	⏩	⏮	⏭	⏪	⏩										
N	↑	→	▲	◀	▶	◀	▶	◀	▶	◀										
O	■	⏪	⏩	◀	▶	◀	▶	◀	▶	◀										
P	☐	⏪	⏩	✕	✓	⏪	Config.	TIME LINE	ME1	ME2										
Q	ME3	ME4	BGND 3D DVE1	BGND 3D DVE2	BUS COLOR	ME BUTTON LINK	*	INSERT	WIPE	⏪										
R	⏪	ALL	⏪	VP	☐	COPY	📄	RECORD MODE	↑	⏪										
S	🔊	♥	MUTE	📱	📱	📱	📱	📱	📱	📱										
T	📱	📱	group	📱	📱	📱	📱	📱	📱	📱										
U	📱	📱	chair	📱	📱	📱	📱	📱	📱	📱										
V	📱	📱	OC	📱	📱	CLEAR	CROSS WIND	AMMO TEMP	BARO PRESS	AIR TEMP										
W	BORE-SIGHT	CANT	LEAD	RANGE	MRS	ZERO	TEST	UD	LR	◊										
X	ID	Dtep	MF	GALL	◊	BAND	SETUP	MODE	LINK	FUNC.										
Y	SHIFT	📱	📱	📱	📱	DEL	📱	📱	📱	📱										
Z	📱	📱	📱	RUN	2D	3D	CH1	CH2	CH3	CH4										

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9