Feature -
- Programmable pushbutton switch with LCD & RGB backlight
- High resolution of 64 * 32 pixels
- Low power consumption
- Dust proof design

Application -
- audio / video switchers
- instrumentation
- telecommunication
- broadcast system
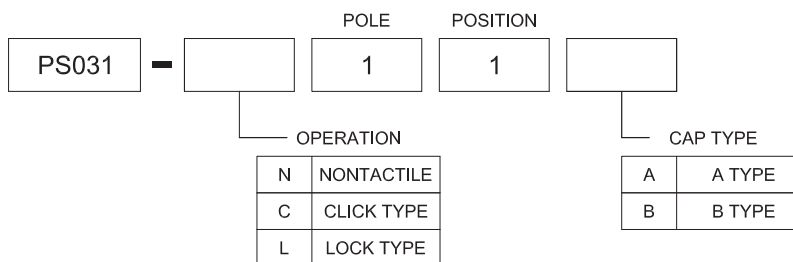- Industrial control system

SWITCH SPECIFICATIONS

POLE - POSITION	OFF - <ON> for Momentary Type , SPST
CONTACT RATING	100 mA 12V DC
CONTACT RESISTANCE	200 mΩ MAX.
INSULATION RESISTANCE	100 MΩ MIN. 500 V DC
DIELECTRIC STRENGTH	Breakdown is not Allowable ; 500 V AC for 1 Minute
OPERATING FORCE	200 ± 80 gf (TP:4.5mm) 160 ± 80 gf (TP:3.5mm)
OPERATING LIFE	2,000,000 cycles
OPERATING TEMPERATURE RANGE	-40°C ~ 85°C
TOTAL TRAVEL	4.5 ± 0.2 mm / 3.5 ± 0.2 mm

LED SPECIFICATIONS

ATTENTION (+)○—▷|—○(-)
LEDs are Electrostatic Sensitive devices

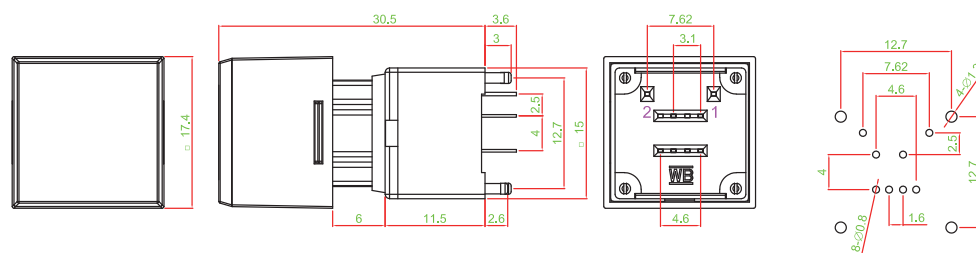|		Unit	Value / LED Color		
			Full Color		
			Red	Green	Blue
DC FORWARD CURRENT	If	mA	70	30	30
REVERSE VOLTAGE	Vr	V	5.0	5.0	5.0
REVERSE CURRENT	Ir	μA	10	50	50
FORWARD VOLTAGE @15mA	Vf	V	1.7 - 2.3	2.5 - 3.1	3.3 - 4.0
LUMINOUS INTENSITY @15mA	Iv	cd/m²	200	420	80

■ A single bin cannot be ordered, please contact us in advance if you need a particular bin sorting before placing your order to clarify the lead time, MOQ and pricing
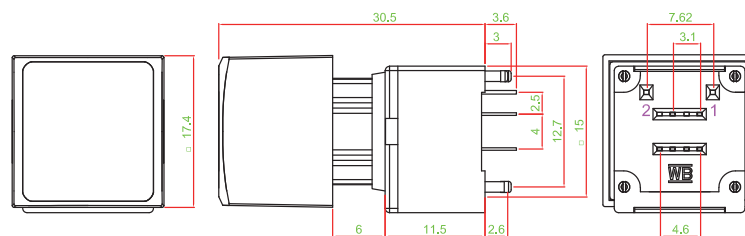
▶ HOW TO ORDER

PS031 - ☐ POLE 1 POSITION 1 ☐

OPERATION
N	NONTACTILE
C	CLICK TYPE
L	LOCK TYPE

CAP TYPE
A	A TYPE
B	B TYPE

▶ DIMENSION

PS031-N11A

30.5 3.6 3 7.62 3.1 12.7 7.62 4.6
17.4 2.5 4 12.7 15
6 11.5 2.6 4.6

PS031-L11B

30.5 3.6 3 7.62 3.1
17.4 2.5 4 12.7 15
6 11.5 2.6 4.6

▶ CIRCUIT

○——○
1   2

▶ ## LCD ELECTRICAL CHARACTERISTICS

DISPLAY

ITEM	CHARACTERISTICS	Unit
LCD Type	FSTN、Positive / Transflective、6 O'clock	--
Driving Method	1/32 duty、1/5 bias	--
DISP.Construction	64 * 32 dots	--
Outline Dimemsions	15.0 (W) * 15.0 (H) * 1.7 (T)	mm
View Area	13.0 (W) * 11.0 (H)	mm
Active Area	12.140 (W) * 9.900 (H)	mm
Dots size	0.17 (W) * 0.29 (H)	mm
Dots pitch	0.19 (W) * 0.31 (H)	mm
Operating Temperature	-10 to 70	°C
Storage Temperature	-20 to 80	°C

BACKLIGHT

COLOR : Over 32K color of backlight					
Dominant Wavelength :					
Device	MIN.	TYP.	MAX.	Units	Test Conditions
Hyper RED	620	--	630		IF=10mA
GREEN	520	--	530	nm	IF=15mA
BLUE	465	--	475		IF=15mA

PIN STRUCTURE
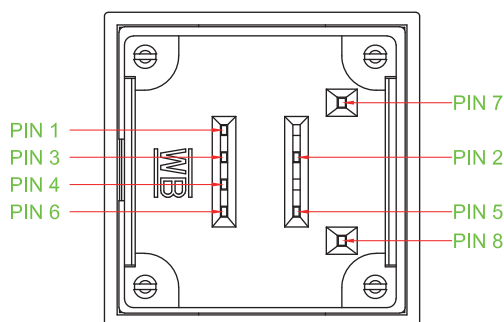
PIN NO.	SYMBOL	NAME	FUNCTION
1	VDD	Power	Power source for logic circuit and LCD.
2	VSS	Ground	Connect to Ground
3	SCS		Chip select for SPI; line is active low
4	SCK		Clock line to synchronize data write for SPI
5	SDI		Data input line for SPI
6	SDO		Data output line for SPI
7	SW1	Switch Pin	Normally open
8	SW2	Switch Pin	Normally open

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