

Pushbutton Switches

Illuminated Pushbutton Switch with LED

PB40 Series



FEATURES:

- > Small size
- > LED illuminated
- > Two colors available
- > Lock / Non-lock / Tactile Type available
- > Various cap options

Specifications:

SWITCH SPECIFICATIONS	
POLE - POSITION	1P2T, 2P2T LOCK / NON-LOCK Action with LED
CONTACT RATING	30 VDC, 0.1A / 5 VDC, 0.1mA
CONTACT RESISTANCE	50 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	250 ± 100 gf
OPERATING LIFE	50,000 cycles
OPERATING TEMPERATURE RANGE	-20°C ~ 70°C
TOTAL TRAVEL	TRAVEL - 1.0 ± 0.3 mm FULL TRAVEL - 1.5 ± 0.3 mm

LED SPECIFICATIONS							
 ATTENTION LEDs are Electrostatic Sensitive devices		Unit	Value / LED Color				
			Blue	Green	Red	White	Yellow
FORWARD CURRENT	If	mA	30	30	30	30	30
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@20mA	Vf	V	3.5-4.0	2.0-2.5	2.0-2.5	3.3-3.8	2.2-2.7
LUMINOUS INTENSITY@20mA	Iv	mcd	230	120	50	145	200

How to order:

PB40	1	2	3	4	5	6	7	8	9	10	11	12	13
	OPERATION	POSITION		TERMINAL		HOUSING COLOR		1. LED BRIGHTNESS		2. LED BRIGHTNESS		PRINTING	
	N NON-LOCK (std.)	2 2 POSITION (std.)		H P.C.B TYPE (std.)		A BLACK (std.)		U ULTRA (std.)		U ULTRA (std.)		... See last page !	
	L LOCK TYPE			R1 RIGHT ANGLE TYPE 1		H GRAY		R REGULAR		R REGULAR			
	T TACTILE			R2 RIGHT ANGLE TYPE 2		B WHITE		N WITHOUT		N WITHOUT			
				R3 RIGHT ANGLE TYPE 3		N WITHOUT							
				R4 RIGHT ANGLE TYPE 4									
		POLE			FRAME		CAP COLOR		1.LED COLOR		2.LED COLOR		
		2 2 POLE (std.)			N WITHOUT		T Transparent (std.)		G BLUE		G BLUE		
		1 1 POLE			S1 SQUARE		N WITHOUT		F GREEN		F GREEN		
					S2 SQUARE		F GREEN		C RED		C RED		
					S2H SQUARE		B WHITE		B WHITE		B WHITE		
					R1 ROUND		E YELLOW		E YELLOW		E YELLOW		
					R1A ROUND		G BLUE		N WITHOUT		N WITHOUT		
					R2 ROUND								
					R2H ROUND								
					R3 ROUND								

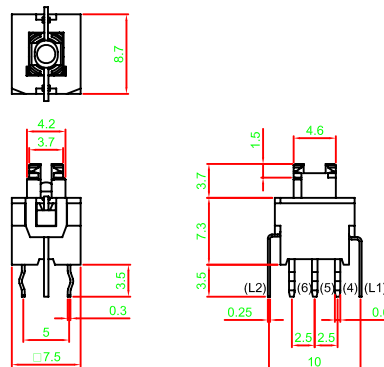
Pushbutton Switches

Illuminated Pushbutton Switch with LED

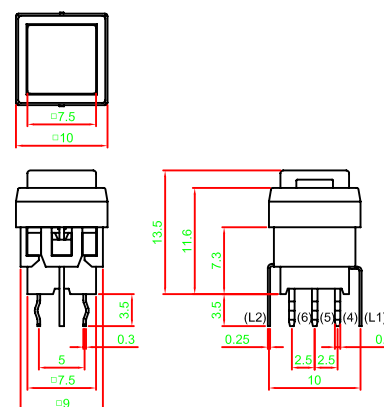
PB40 Series

► DIMENSION

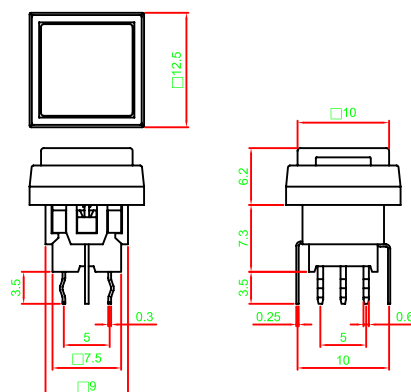
PB40L22NHNNN



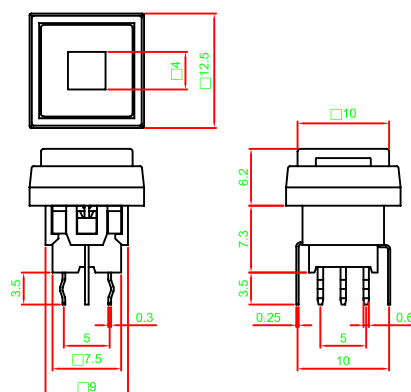
PB40L22NHS1AT



PB40N22NHS2AT



PB40N22NHS2HAT



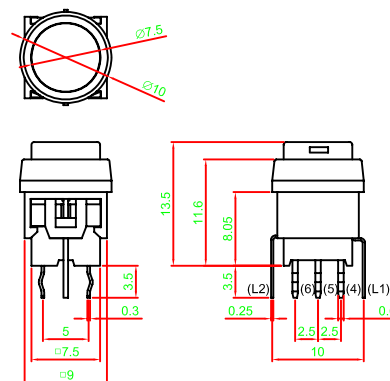
Pushbutton Switches

Illuminated Pushbutton Switch with LED

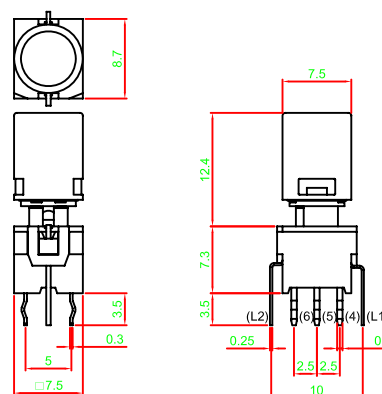
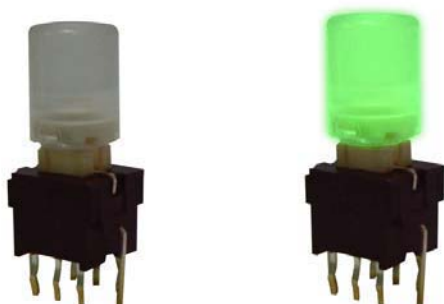
PB40 Series

► DIMENSION

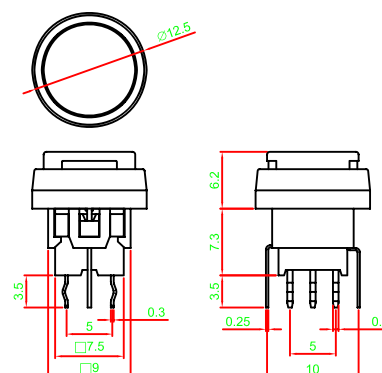
PB40L22NHR1AT ☐ ☐ ☐ ☐ ☐



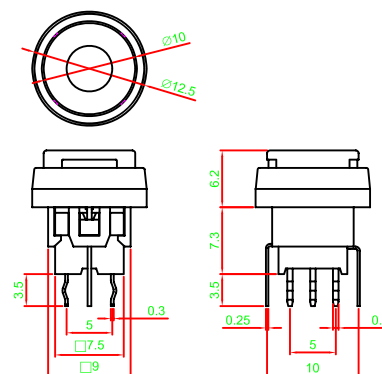
PB40L22NHR1ANT ☐ ☐ ☐ ☐ ☐



PB40N22NHR2AT ☐ ☐ ☐ ☐ ☐



PB40N22NHR2HAT ☐ ☐ ☐ ☐ ☐



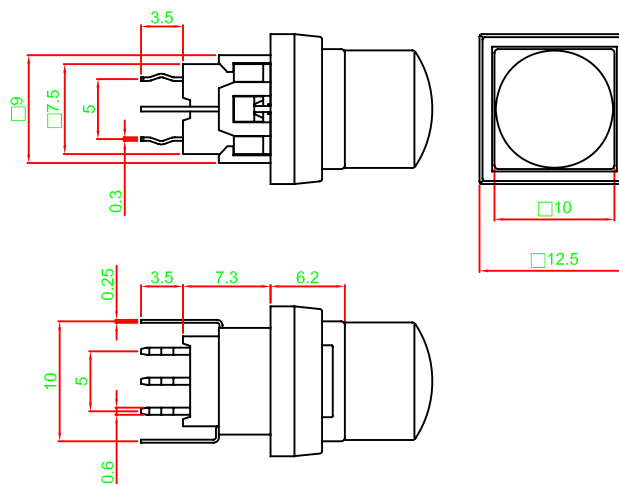
Pushbutton Switches

Illuminated Pushbutton Switch with LED

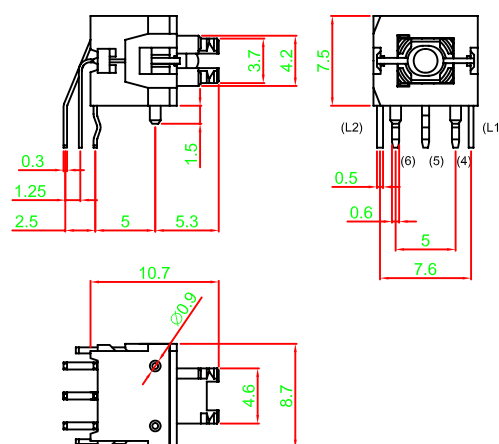
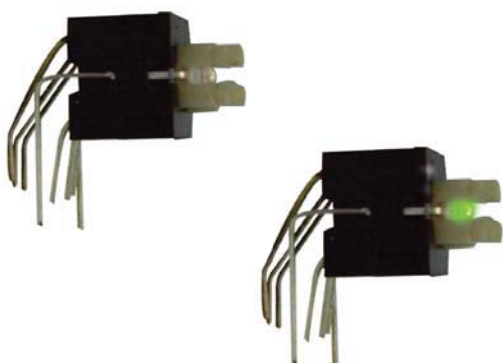
PB40 Series

► DIMENSION

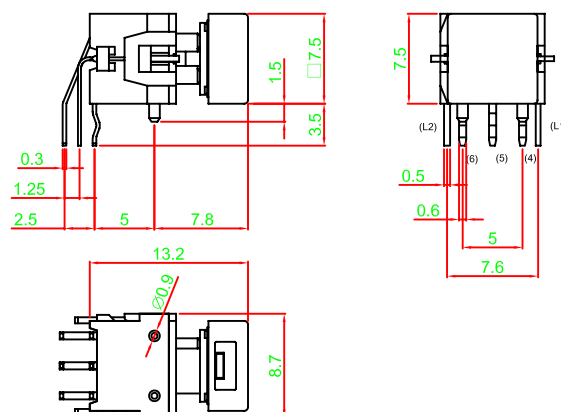
PB40N22NHR3AT ☐ ☐ ☐ ☐ ☐



PB40N22NRNN ☐ ☐ ☐ ☐ ☐



PB40N22NRS1NT ☐ ☐ ☐ ☐ ☐



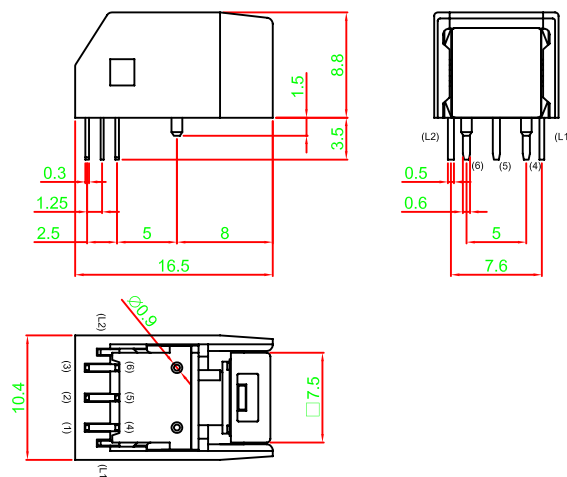
Pushbutton Switches

Illuminated Pushbutton Switch with LED

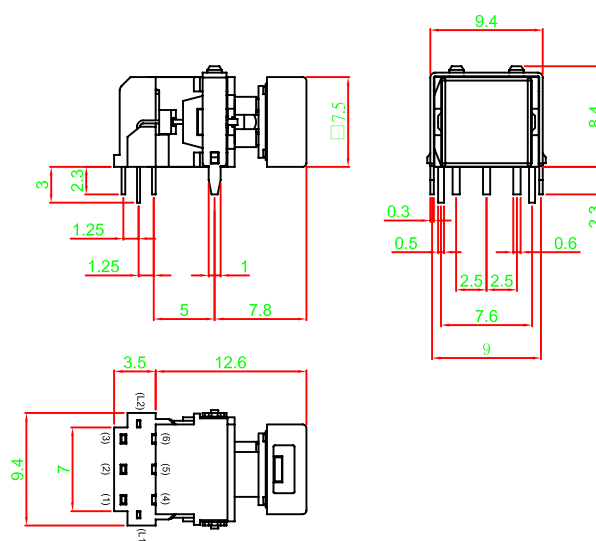
PB40 Series

► DIMENSION

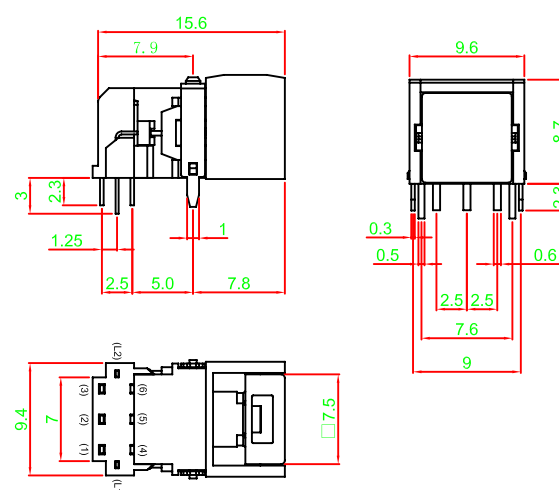
PB40N22NRS1AT ☐ ☐ ☐ ☐ ☐



PB40N22NR1S1NT ☐ ☐ ☐ ☐ ☐



PB40N22NR2S1AT ☐ ☐ ☐ ☐ ☐



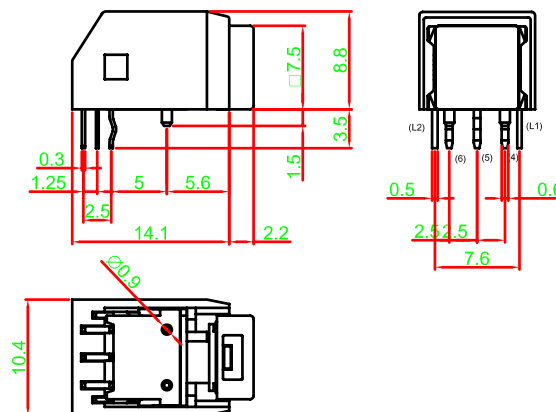
Pushbutton Switches

Illuminated Pushbutton Switch with LED

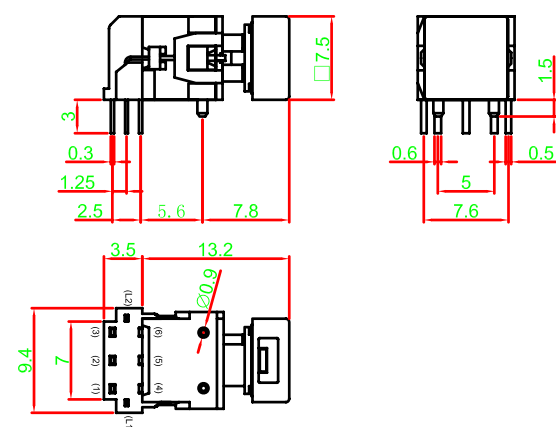
PB40 Series

► DIMENSION

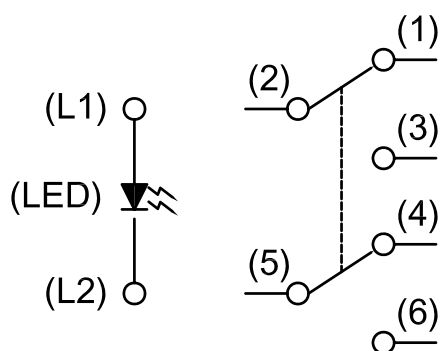
PB40N22NR3S1AT



PB40N22NR4S1NT

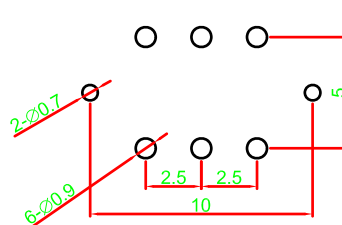


► CIRCUIT DIAGRAM

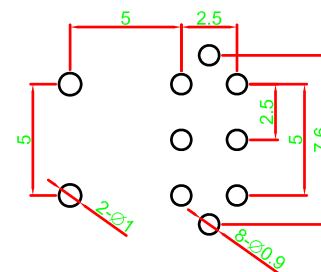


► P.C.B. LAYOUT PCB

STANDARD TYPE



RIGHT ANGLE TYPE



► MATERIAL

- FRAME - PA + GF
- ACTUATOR - PA + GF
- BASE - PA9T + GF
- TERMINAL - BRASS ; SILVER PLATING
- SPRING - STAINLESS STEEL

Pushbutton Switches

Illuminated Pushbutton Switch with LED

PB40 Series

00 No Printing



Select one printing type (e.a. **K3** for



)

	0	1	2	3	4	5	6	7	8	9
A	0	1	2	3	4	5	6	7	8	9
B	A	B	C	D	E	F	G	H	I	J
C	K	L	M	N	O	P	Q	R	S	T
D	U	V	W	X	Y	Z	POWER	ON OFF	ON	OFF
E	OK	ⓄK	Auto	Enter	Start	STOP	OPEN	CLOSE	Exit	Move
F	SET	Reset	Light	Alarm	Menu	Next	Back	Delete	Motor	Save
G	Up	Down	Right	Left	Test	End	Insert	Lock	Print	+/-
H	ESC	BC.	HOME	Health	D-LED 2	OC GENE	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	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
Q	ME3	ME4	BGND 3D DVE1	BGND 3D DVE2	BUS COLOR	ME BUTTON LINK	*	INSERT	WIPE	Ⓜ
R	Ⓜ	ALL	Ⓜ	VP	Ⓜ	COPY	Ⓜ			