

X2-R9(X2-R19) Series

Rocker Switches



SPECIFICATION

Electrical Rating : 12A 125VAC 6A 250VAC (UL)
4(1)A 250VAC (VDE)
16A 250VAC/21A 125VAC(UL)
16(6)A 250VAC(VDE) R91,R9D

Mechanical life: Over 30000 cycles
Electrical life: Over 10000 cycles
Contact resistance: <20mΩ
Insulation resistance: >1000MΩ
High voltage resistance: >1500VAC 1 min.
Ambient temperature: Terminal side -20 to +85°C
Actuating side- 20 to +55°C
Atmospheric humidity: Max.85%
Actuating force: 4 to 8N(depends on different switch function)
Flammability: UL94V-2
Storage temperature: -30 to +80°C Max
Temperature rise at the terminal: Max 30°C (UL1054)
Solder ability of terminal: Max 350°C 3s

MATERIALS

Housing: PA 66
Rocker: PC & PA66
Contact: Silver alloy
Terminal: Brass silver plated
Lamp: Neon lamp, Tungsten lamp, LED
Movable arm: Beryllium copper



HOW TO ORDER

X2-R9 1 2 K K E T 0 0 F 1
Series Switch Function Rating Housing Color Actuator Color Marking Terminal Lamp Voltage Lamp Type Safety Approval

Series		26A 250V AC 12A 125V AC 4(1)A 250V AC		6A 250V AC 12A 125V AC 4(1)A 250V AC		16A 250V AC 21A 125V AC 16(6)A 250V AC (Without Lamp)	
1 ON-OFF (SPST)		9 ON-OFF (SPST-With Lamp)		D ON-OFF (DPST)		Y ON-OFF (DPST-With Lamp)	

G	Gray		
W	White	○	○
K	Black	○	○
O	Orange		
R	Red		○
B	Blue		
Y	Yellow(III.)		○
M	Green(III.)		○
F	Blue(III.)		○
D	Red(III.)		○

R	R Type
T	T Type
L	L Type

See option of marking
(See Page 233)




0	No Lamp
1	125V AC
2	250V AC
3	12V DC
4	24V DC
7	3V DC

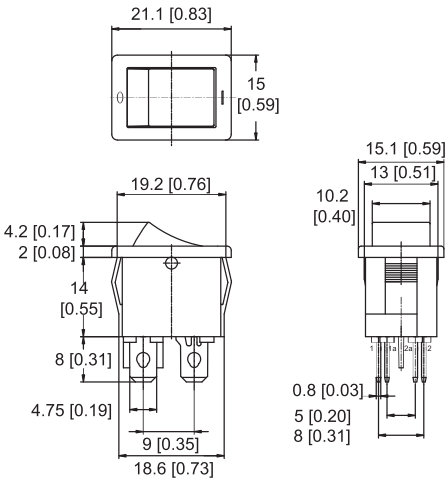
0	No Lamp
L	Led Lamp
T	Tungsten Lamp
N	Transparent Neon Lamp
F	Green Fluorescent Neon Lamp
B	Blue Fluouerscent Neon Lamp

F	4 Safety Approvals
E	None Approval

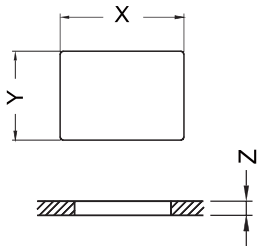
2	No Barrier Between Terminals
1	With One Barrier Between Terminals
10	With Cross Barrier Between Terminals

OPTIONS OF SWITCH FUNCTION / DIMENSION

Item Number	Poles & Throws	Rocker Position		
				
X2-R91	SPST	ON	NONE	OFF
X2-R99	SPST (WITH LAMP)	ON	NONE	OFF
X2-R9D	DPST	ON	NONE	OFF
X2-R9Y	DPST (WITH LAMP)	ON	NONE	OFF
X2-R9I	Indicator			
X2-R9B	The block sealed on the panel			



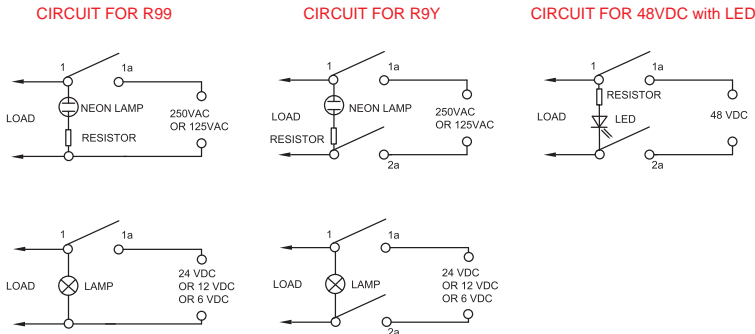
PANEL CUT OUT



Z	Y	X
0.7~1.25	12.8~12.9	19.2~19.3
1.25~2.0	12.8~12.9	19.3~19.4
2.0~3.0	12.8~12.9	19.5~19.6

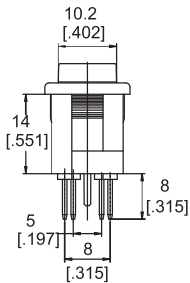
CIRCUITS FOR SWITCH WITH LAMP

For circuit of 250VAC, 125VAC with neon lamp
For circuit of 24 VDC, 12 VDC, 6 VDC, 3 VDC with lamp
For circuit of 48 with LED



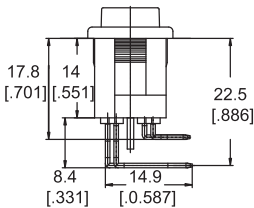
TERMINAL TYPE

T Type



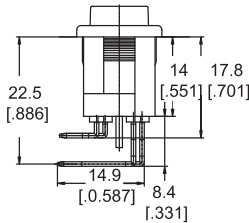
Quick Connect Tab

R Type



Right Angle PC Through Hole Terminal





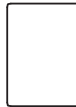



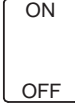
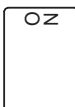





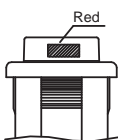
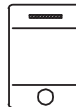



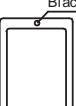
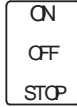
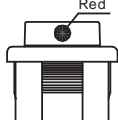
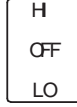








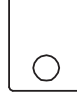




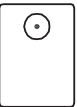

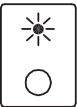

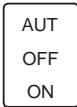

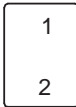
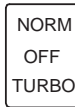

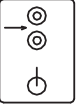

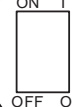
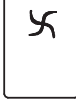



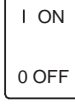

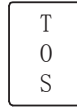
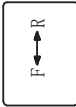



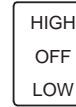
L Type



Left Angle PC Through Hole Terminal

CAP MARKING

FOR ROCKER SWITCHES

 A	 B	 C	 D	 E	 F	 G	 H	 I
 J	 K	 L	 M	 N	 O	 P	 Q	 S
 T	 U	 V	 W	 X	 Y	 Z	 1A	 1B
 1C	 1D	 1E	 1F	 1G	 1H	 1I	 1J	 1K
 1L	 1M	 1N	 1O	 1P	 1Q	 1R	 1S	 1T
 1U	 1V	 1W	 1Y	 1Z	 2A	 2B	 2C	 2D
 2E	 2F	 2G	 2H	 2I	 2J	 2K		