

# Specification Change Notice

## XH Series Lighted Pushbutton Switch 【LED】

We would like to inform you that specification of LED will be changed after April 1, 2013.

No change in external dimensions and part number. The details are as follows.

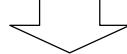
**All LED colors: R(70) G(80) Y(90) SB(14) SW(16) SG(18)**

### ●EXTERNAL RESISTOR ★19mm Square Button Before Change

	Full-Face												Split-Face																							
	R			G			Y			SB			SW			SG			R			G			Y			SB			SW			SG		
	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V						
Max operating current IFM(mA)	60	40	20	60	40	20	60	40	20	50	25	50	25	50	25	40	20	40	20	20	50	25	50	25	50	25	25	25	25							
DC reverse voltage VR(V)	8	12	24	8	12	24	8	12	24	5	10	5	10	5	10	8	12	8	12	8	12	5	5	5	5	5	5	5	5	5						
Forward voltage VF(V)	3.6	5.4	10.8	4.4	6.6	13.2	4	6	12	3.2	6.4	3.2	6.4	3.2	6.4	3.6	5.4	4.4	6.6	4	6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2						
Recommended operating current IF(mA)	20	15	8	40	30	15	25	20	10	23	13	23	13	23	13	15	8	30	15	20	10	13	13	13	13	13	13	13	13	13						
Current Reduced Factor	1.2	0.8	0.4	1.2	0.8	0.4	1.2	0.8	0.4	1.2	0.4	1.2	0.4	1.2	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4						

	Dual-Color												RGY combination						R,Y and SB, SW, SG combination						SB, SW, SG combination					
	RGY combination						R,Y and SB, SW, SG combination						SB, SW, SG combination						R		G		Y		SB		SW		SG	
	R		G		Y		R		Y		SB		SW		SG		SB		SW		SG		SB		SW		SG			
5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	
Max operating current IFM(mA)	60	40	20	60	40	20	60	40	20	50	25	50	25	50	25	40	20	40	20	20	50	25	50	25	50	25	50	25	50	
DC reverse voltage VR(V)	8	12	24	8	12	24	8	12	24	8	12	24	8	12	24	5	10	5	10	5	10	5	10	5	10	5	10	5	10	5
Forward voltage VF(V)	3.6	5.4	10.8	4.4	6.6	13.2	4	6	12	3.6	5.4	10.8	4	6	12	3.2	6.4	3.2	5.8	3.2	6.4	3.2	6.4	3.2	6.4	3.2	6.4	3.2	6.4	
Recommended operating current IF(mA)	20	15	8	40	30	15	25	20	10	20	15	8	25	20	10	23	13	18	10	18	10	23	13	18	10	18	10	18	10	
Current Reduced Factor	1.2	0.8	0.4	1.2	0.8	0.4	1.2	0.8	0.4	1.2	0.8	0.4	1.2	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8		

Please be sure to use the appropriate resistor.



**After Change**

	Full-Face												Split-Face																							
	R			G			Y			SB			SW			SG			R			G			Y			SB			SW			SG		
	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V	5V	12V	24V						
Max operating current IFM(mA)	60	40	20	60	40	20	60	40	20	40	20	40	20	40	20	40	20	40	20	40	20	40	20	40	20	40	20	40	20							
DC reverse voltage VR(V)	8	12	24	8	12	24	8	12	24	5	10	5	10	5	10	8	12	8	12	8	12	5	5	5	5	5	5	5	5	5						
Forward voltage VF(V)	3.6	5.4	10.8	4.2	6.3	12.6	3.6	5.4	10.8	2.9	5.8	2.9	5.8	3	6	3.6	5.4	10.8	2.9	5.8	2.9	5.8	3	6	3.6	5.4	2.9	5.8	3							
Recommended operating current IF(mA)	20	15	8	40	30	15	25	20	10	20	15	8	25	20	10	23	13	20	10	18	10	23	13	20	10	18	10	20	10							
Current Reduced Factor	1	0.7	0.4	1	0.7	0.4	1	0.7	0.4	0.6	0.3	0.6	0.3	0.6	0.3	0.7	0.4	0.7	0.4	0.7	0.4	0.7	0.4	0.7	0.4	0.7	0.4	0.7	0.4	0.7						

※(Over 25°C working Temperature)

