

Specification Change Notice

EH Series Miniature Lighted Pushbutton Switch 【LED】

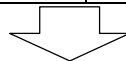
We would like to inform you that specification of LED will be changed after January 1, 2013.

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

●LED RATINGS

LED Color: Super Blue=SB(14), Super White=SW(16), Super Green=SG(18)

Before Change										
Voltage(V) DC	Unit	Hi-Bright Full-face			Hi-Bright Dual-Color			Hi-Bright Split-Face		
		SB	SW	SG	SB	SW	SG	SB	SW	SG
5 (±5%)	mA	32	32	16	32	32	16	16	16	8
12 (±5%)	mA	16	16	8	16	16	8	16	16	8
24 (±5%)	mA	8	8	8	8	8	8			

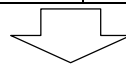


After Change										
Voltage(V) DC	Unit	Hi-Bright Full-face			Hi-Bright Dual-Color			Hi-Bright Split-Face		
		SB	SW	SG	SB	SW	SG	SB	SW	SG
5 (±5%)	mA	12	18	10	12	18	10	6	9	5
12 (±5%)	mA	6	10	6	6	10	6	6	10	6
24 (±5%)	mA	6	10	6	6	10	6			

●EXTERNAL RESISTOR

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

Before Change															
ITEM	Full-Face Dual-Color		Split-Face	Hi-Bright				Hi-Bright Split-Face		Hi-Bright Dual-Color					
	DC5V	DV12,24V	DC5,12,24V	DC5V	DC12V,24V		DC5V,12V,24V		DC5V			DC12V,24V			
	RGY	RGY	RGY	BW	SG	SB,SW	SG	SB,SW	SG	SB	SW	SG	SB	SW	SG
Max. operating current IFM(mA)	40	20	20	50	50	25	25	25	25	40	40	40	20	20	20
DC reverse voltage VR(V)	8	16	8	5	5	10	10	5	5	5	5	5	10	10	10
Forward voltage VF(V)	4	8	4	3.6	3.5	7.2	7	3.6	3.5	3.2	3.2	3.2	6.2	6.2	6.4
Forward Current IF(mA)	30	15	15	32	16	16	8	16	8	16	16	16	16	16	8
Current Reduced Factor ※	0.66	0.33	0.33	1.6		0.4		0.4		0.56	0.5	0.56	0.28	0.25	0.28
Pulse Width PW(μs)	100			≤10 ₄									10 ₄	100	10 ₄
Duty Ratio DR				10-1									10-1		
IFM(mA)		120	120		80			80					130	100	130



Please be sure to use the appropriate resistor.

After Change																			
ITEM	Full-Face Dual-Color						Split-Face			Hi-Bright Full-Face Dual-Color						Hi-Bright Spit-Face			
	DC5V			DC12V,24V			DC5V,12V,24V			DC5V			DC12V,24V			DC5V,12V,24V			
	R	G	Y	R	G	Y	R	G	Y	SB	SW	SG	SB	SW	SG	SB	SW	SG	
Max. operating current IFM(mA)	50	40	50	25	20	25	25	20	25	40	40	40	20	20	20	20	20	20	
DC reverse voltage VR(V)	10	10	10	20	20	20	10	10	10	5	5	5	10	10	10	5	5	5	
Forward voltage VF(V)	3.8	4.2	3.8	7.6	8.4	7.6	3.8	4.2	3.8	2.9	2.9	3.0	5.8	5.8	6.0	2.9	2.9	3.0	
Forward Current IF(mA)	30	30	30	15	15	15	15	15	15	12	18	10	6	10	6	6	10	6	
Current Reduced Factor※	0.66 mA/°C			0.33 mA/°C			0.33 mA/°C			0.54 mA/°C			0.27 mA/°C			0.27 mA/°C			
Pulse Width PW(μs)				100			100						100			1000			
Duty Ratio DR				10-1			10-1						10-1			1/20			
IFM(mA)				90			90						50			48			

※(Over 25°C working Temperature)