

Feb. 7, 2022



## Product Discontinuation Notice

### CH Series Illuminated Pushbutton Switch 【LED color 7, 8, 9 type】

Thank you for your continued support of Sunmulon switch, CH series.

CH series LED color 7,8,9 as standard brightness type will be discontinued on April 1, 2023 due to integrate with high-brightness LED type. No change in external dimensions. The details are as follows.

The CH series comes in two types of LED brightness. Target LED color is Red, Green and Yellow.

Ordering code of LED color of standard brightness type (7, 8, 9) will be changed to the same as for high-brightness type (70, 80, 90) in order to make it easier to specify the model number.

Please note that we will no longer be able to accept orders in the previous model after April 1, 2023.

#### ORDERING CODE

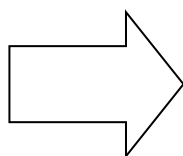
Before

##### ●LED COLOR

7	Red
8	Green
9	Yellow

##### ●Super CH LED COLOR

70	Red
80	Green
90	Yellow
14	Super Blue
16	Super White
18	Super Green



After

##### ●LED COLOR

70	Red
80	Green
90	Yellow
14	Super Blue
16	Super White
18	Super Green

If you want the same brightness as the previous model, please specify 0759 at the end of model number for built-in resistor type (Supply voltage to LED: 1, 2, 3).

ex.) CHA-3S07CK1S1 ⇒ CHA-3S070CK1S10759

CHA-3S279CK13S1 ⇒ CHA-3S27090CK13S10759

If you want the same brightness as the previous model for non-resistor type (Supply voltage to LED: 4, 5, 6), please refer to the following and use it with an external resistor.

### ●EXTERNAL RESISTOR for previous model (Standard brightness type)

Square	Full-Face			Split-Face			Dual-Color	
Supply voltage for LED	DC5V, 12V, 24V			DC5V, 12V, 24V			DC5V, 12V, 24V	
LED color	Red	Green	Yellow	Red	Green	Yellow	Red	Green
Max operating current $I_{FM}$ (mA)	20	20	20	20	20	20	20	20
DC reverse voltage $V_R$ (V)	8	8	8	4	4	4	8	8
Forward voltage $V_F$ (V)	3.6	4.2	3.6	1.8	2.1	1.8	3.6	4.2
Recommended operating current $I_F$ (mA)	1.5	5	3	1.5	5	3	1.5	5

Rectangle	Full-Face					
Supply voltage for LED	DC5V			DC12V, 24V		
LED color	Red	Green	Yellow	Red	Green	Yellow
Max operating current $I_{FM}$ (mA)	40	40	40	20	20	20
DC reverse voltage $V_R$ (V)	8	8	8	16	16	16
Forward voltage $V_F$ (V)	3.6	4.2	3.6	7.2	8.4	7.2
Recommended operating current $I_F$ (mA)	3	8	6	1.5	4	3

Rectangle	Split-Face			Dual-Color			
Supply voltage for LED	DC5V, 12V, 24V			DC5V		DC12V, 24V	
LED color	Red	Green	Yellow	Red	Green	Red	Green
Max operating current $I_{FM}$ (mA)	20	20	20	40	40	20	20
DC reverse voltage $V_R$ (V)	8	8	8	8	8	16	16
Forward voltage $V_F$ (V)	3.6	4.2	3.6	3.6	4.2	7.2	8.4
Recommended operating current $I_F$ (mA)	1.5	4	3	3	8	1.5	4

The value of the series resistor can be determined by the formula.

$$R = \frac{V_{CC} - V_F}{I_F}$$

$V_{CC}$ : Supply Voltage  
 $V_F$ : Forward Voltage  
 $I_F$ : Forward Current

