



used for the contact, resulting in compact body and high performance. Use of connector applicable to a wire of up to 2 mm² size The back terminal structure enables high-density mounting.

Cam-operated switch structure is

Incorporating a limiting resistor, the LED can be directly turned on from 110 V DC power supply.

The surface area is approx. 30 mm square. Approx. 50% smaller than the conventional model. *

* As compared with our conventional BHL type.

SPECIFICATIONS (RATINGS, PERFORMANCE)

Type Specification	UL TYPE				
Rated insulation voltage (Ui)	250V				
Rated current-carrying capacity (Ith)		1.	A		
Instantaneous operating current		20A/	1 sec.		
Connectable wire size	0.5~2.0mm²				
Withstand voltage	Between live line and ground	2,000V AC / 1min	Between individual live lines	1,000V AC / 1min	
Lightning impulse	Between live line and ground	\pm 7kV/3 times for each pole (1.2/50 μ s)	Between individual live lines	\pm 3kV/3 times for each pole (1.2/50 μ s)	
Contact resistance	50mΩ or less				
Mechanical life	100,000 operations or more (1200 times / hour)				
Electrical life	100,000 operations or more (0.5A / 110 V DC L/R=40ms)				
Shock resistance	500m/s ²				
Vibration resistance	20m/s² (10~150Hz)				
Minimum applicable load	24 V 10m A (in suitable operating conditions)				
Operating temperature	−25 to 50°C				
Storing temperature	–40 to 70°C				
Altitude	2,000 m or less				

Making and breaking capacity

\searrow		Resistive load		Inductive load		
		10,000 operations	100,000 operations	10,000 operations	100,000 operations	
А	AC110V	10A	5 A	10A	ЗA	
С	AC220 V	7 A	3 A	5 A	2 A	
	DC5 V	10A	10A	10A	7 A	
	DC12V	10A	6 A	10A	4 A	
D	DC24 V	10A	3 A	10A	2 A	
С	DC48 V	10A	2 A	7 A	1 A	
	DC110 V	7 A	0.7 A	5 A	0.5 A	
	DC125 V	5 A	0.5 A	4 A	0.3 A	

*Inductive load For AC : Power factor 0.6 to 0.7 For DC : Time constant 40±6ms

 $\underline{\wedge}$ Precautions for use

In the above table, interruption current indicates actual performance of the UL type micro cam-operated switch. During use of the UL type, make sure that the rated operating current and instantaneous operating current do not exceed 1 A and 20 A/sec. respectively.



How to ORDER $\underbrace{UL}_{1} - \underbrace{SP}_{2} \underbrace{2001}_{3} - \underbrace{235}_{456} \underbrace{\square}_{7} \underbrace{A}_{8} \underbrace{C}_{9} \underbrace{Y}_{10}$

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No.	Item	Code	Detail	Note			
1	Basic type	UL	Illuminated micro cam-operated switch				
		SP X	Push at center \rightarrow Manual turn by 45° (CW or CCW) \rightarrow				
		5F XV	Automatic return to center \rightarrow Automatic return to non-push status				
		s <*>	Manual turn by 45° (CW or CCW) →				
		3 V	Automatic return to center				
2	Operation method		Push at left \rightarrow Manual turn by 45° (CW) \rightarrow	_			
۲	operation method		Manual return to left \rightarrow Automatic return to non-push status				
		н	Manual operation by 90° (CW/CCW),				
			Stop at each position				
		SB 🗡	Pull at center \rightarrow Manual turn by 45° (CW or CCW)				
		SB V	Automatic return to center \rightarrow Automatic return to non-pull status				
3	Contact arrangement	2001~2007	Please choose from Contact Configuration diagram	—			
(4)	Indication circuit 1		1 lamp	_			
	indication circuit	2	2 lamp				
		1	DC24V				
		2	DC48V				
(5)	Lamp voltage	Lamp voltage	Lamp voltage	Lamp voltage	3	DC100 / 110V	—
		4	DC125V				
		5	DC220V				
		1	W (Milky white)				
6	Lamp color	5	R (Red), G (Green)	—			
		8	Y (Yellow), B (Blue)				
		-	Standard (Non-common)	Please choose from			
Ĩ	LED circuit	LED circuit	N	N-common	LED circuit diagram.		
		Р	P-common	LED Circuit diagram.			
(8)	Handle code	A	Manual return type and automatic return type	Except SB			
	Tianais coue	В	Pull operation	For SB			
9	Color of handle	С	Clear				
Ű	color or hundle	W	Milky white				
(10)	Flange shape	Y	Square type	Only black color			
	. lange shape	Z	Round type	(N1.5) is available			

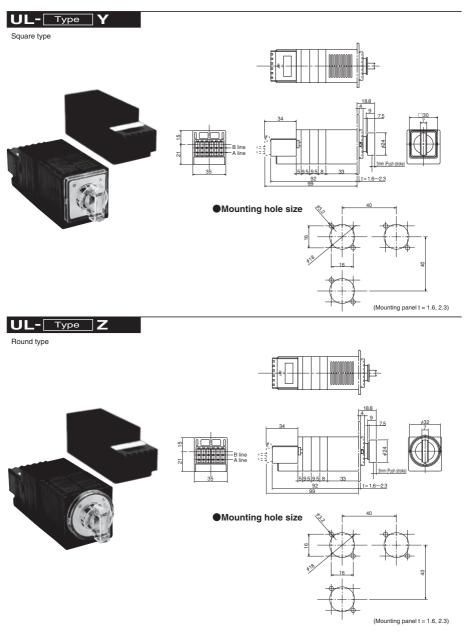
Contact arrangement

2001	2002	2003	2004	2005	2006	2007
6Ao	6A0	6A0	6A0	6Ao	6A0	6A0 06B
5Ao	5A0	5A0	5A0	5Ao	5A0	5A0 05B
2Ao	2A0	2A0	2A0	2Ao	2A0	2A0 02B
1Ao	1A0	1A0	1A0	1Ao	1A0	1A0 01B
Connector No. Connector No.						

LED circuit diagram

• • • • • • • • • • • • • • • • •				
Standard (Non-common)	N-common	P-common		
Connector No. R or Y or W Connector No. 4A O W AB	Connector No. R or Y or W Connector No. 4A O H A C 4B	Connector No. R or Y or W Connector No. 4A O H H O 4B		
3A O-₩ SB	SA O-₩ → O 3B			

STANDARD PRODUCTS





ACCESSORIES

Handle

OU Tsumami color OUL-B-color (Dedicated to pull operation) R10 22.8 Cod Color С Clear Code Color W Milky white С Clear Please put the middle W Milky white of knob lens, after attaching handle to the 22.8 switch body. Flange set Nameplate (selling separately) OUL-NP-Y000 OUL-Y (Square type) ¢17 Flange Y 1 0.35 8 2.3 Supplied screws : M3×8 countersunk 2 pcs. 25.9 30 UL-NP-Z000 Flange cover Y OUL-Z (Round type) *₹*?> 2.3 0.35 Flange Z Nameplate No. UL-NP-Y000 Detail Plain UL-NP-Y001 切/入 Supplied screws : M3×8 countersunk 2 pcs. \$17 UL-NP-Y002 切/起動 UL-NP-Y003 異系統/同系統 Square UL-NP-Y004 type 手動/自動

Flange cover Z

UL-NP-Y005

UL-NP-Y006

UL-NP-Y007

UL-NP-Z000

UL-NP-Z001

UL-NP-Z002

受電/送電

単相/多相

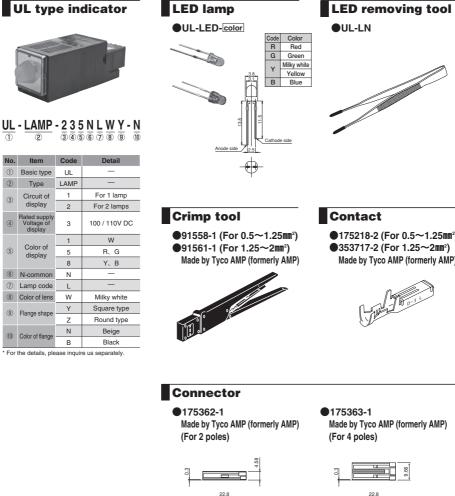
ロック/使用

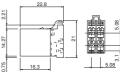
Plain

切/入 type

着/脱

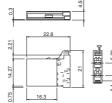
Round





175218-2 (For 0.5~1.25mm²) ●353717-2 (For 1.25~2mm²) Made by Tyco AMP (formerly AMP)





Made by Tyco AMP (formerly AMP)

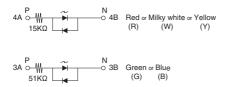




TECHNICAL DATA

LED replacement

If you replace the built-in LED, the color of the LED should conform to the original color. The internal resistance varies depending on the color. If you intend to change the color of the LED, please consult us, or check the following circuit.



The LED is easily affected by static electricity. When handling the LED, do not touch the LED lead wire directly by hand, and do not allow a voltage to be directly applied to the LED.