

# Plateau Head Pushbutton Switch

# Easy connector enables less assembly and less wiring

- 50 mm body length.
- Highly reliable Major Omron basic switch, SS model built in.
- Possible cross over wiring on circuit construction.
- Easy one push to connect the Operation and Switch Units.
- 22 dia of the push button head size is suitable for operation.



## **Model Number Structure**

Model Number Legend....For information on combinations, refer to Ordering Infomation.

A3U(1) -T(2) (3) -(4) A(5) C-(6) M

#### (1) Lighted/Non-lighted

Symbol	Туре
No symbol	Non-lighted
L	Lighted

#### (2) Flange Color

Symbol	Color
В	Black
М	Metallic*

<sup>\*</sup> Available soon.

#### (3) Color of Pushbutton and light

Symbol	Pushbutton	Lighted	Non-lighted
W	White*1	0	0
R	Red	0	0
Υ	Yellow	0	0
G	Green	0	0
U	Umber*2	0	_
Α	Blue	0	0
В	Black	_	0

For the lighted-type, the cap color is transparent and the LED is white.

## (4) Light Source

Symbol	Operating Voltage
No symbol	Non-lighted
1	5 VDC
2	12 VDC
3	24 VDC

#### (5) Contact Configuration

Symbol	Туре
1	SPDT
2	DPDT

#### (6) Degree of Protection

Symbol	Protection
None	IP40
5	IP65*

Available soon.

# **Ordering Information**

Туре	Lighting	Output	LED Voltage	Model	☐ Pushbutton color symbol
Pushbutton Switch		SPDT	5 VDC	A3UL-TB□-1A1C-M	W : Transparent
			12 VDC	A3UL-TB□-2A1C-M	R : Red
	LED		24 VDC	A3UL-TB□-3A1C-M	Y : Yellow
	LED		5 VDC	A3UL-TB□-1A2C-M	G : Green U : Umber A : Blue
	DPDT	DPDT	12 VDC	A3UL-TB□-2A2C-M	
			24 VDC	A3UL-TB□-3A2C-M	
	Non-lighted	SPDT	_	A3U-TB□-A1C-M	W: White R: Red Y: Yellow
		DPDT	_	A3U-TB□-A2C-M	G: Green B: Black A: Blue

# **Specifications**

## **Approved Standard Ratings**

Certification Authority UL (See Note: 1 and Note: 2)		TÜV (See Note: 3)
Certification no. UL508 CSA C22.2 No.14		EN60947-5-1
Rating	30 VDC 0.1 A	12 30 VDC 0.1 A
File no.	E41515	J50236157

Note: 1. Only Switch Blocks are recognized by UL. (Surrounding air Temperature: 55 °C)
 Note: 2. Please use the power supply specified in UL class 2.
 Note: 3. Use 4A 250V as short-circuit protective device when using under EN authorized rating standard (IEC60127-2 SS1).

For the lighted-type, the cap color is transparent and the LED is umber.

# **Ratings**

Contacts 30 VDC, 0.1 A (Resistive load)

Minimum applicable load: 1 mA at 5 VDC

Rated values are obtained from tests conducted under the following conditions.

- 1. Load: Resistive load
- 2. Mounting conditions: No vibration and no shock
- 3. Temperature: 20  $\pm$  2 °C
- 4. Operating frequency: 20 operations/min

## Super-bright LED

Rated voltage	Rated current	Operating voltage
5 VDC		5 VDC ± 5 %
12 VDC	15 mA	12 VDC ± 5 %
24 VDC		24 VDC ± 5 %

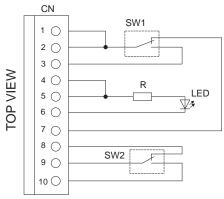
## Characteristics

Item	Characteristics			
Discription   Electrical   30 operations/minute max.		Item	Pushbutton Switch	
Trequency   Electrical   30 operations/minute max.		Mechanical	60 operations/minute max.	
Between terminals of same polarity   Between terminals of different polarity   Between each terminal and ground   Between all LED terminals and all the other terminals   Malfunction		Electrical	•	
Between terminals of same polarity  Between terminals of different polarity  Between each terminals of different polarity  Between each terminals and all the other terminals and the other terminals of the other terminal	Insulation re	esistance	100 MΩ min. (at 500 VDC)	
Same polarity   Between terminals of different polarity   Between each terminal and ground   Between all LED terminals and all the other terminals   10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)	Contact res	istance	250 mΩ max. (initial value)	
Dielectric strength  Between each terminal and ground Between all LED terminals and all the other terminals and al		same polarity	500 VAC, 50/60 Hz for 1 minute	
terminaland ground Between all LED terminals and all the other terminals  Vibration resistance  Malfunction  Malfunction  Mechanical Electrical  Connector holding force Rated insulation voltage (Ui) Electric shock protection class Degree of contamination  Between terminals of different polarity Between terminals of terminal and ground  Conditional short-circuit current Conventional enclosed thermal current (Ithe)  Meight  Degree of protection  Ambient operating humidity  1,500 VAC, 50/60 Hz for 1 minute  500 VAC, 50/60 Hz for 1 minute  100 V 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)  10 to 55 Hz, 1.5-mm double amplitue (malfunction within 1 ms)  10 to 40 N max.  10 to 40 N max.		different polarity	500 VAC, 50/60 Hz for 1 minute	
Ambient storage temperature   Ambient storage temperature   Ambient storage temperature   Ambient operating temperature   Ambient operation operation operat	strength	terminaland ground	1,500 VAC, 50/60 Hz for 1 minute	
resistance Shock resistance Durability  Mechanical Electrical Connector holding force Rated insulation voltage (Ui) Electric shock protection class Degree of contamination  Between terminals of same polarity Between each terminal and ground  Conditional short-circuit current Conventional enclosed thermal current (Ithe)  Meight  Ambient operating humidity  Mechanical 1,000,000 operations min. 200,000 operations min. Class II 200,000 operations min. Class II 30 V (EN60947-5-1)  800 V (EN60947-5-1)			,	
resistance    Malfunction   300 m/s² max. (malfunction within 1 ms)		Malfunction		
Connector holding force			300 m/s <sup>2</sup> max. (malfunction within 1 ms)	
Connector holding force  Rated insulation voltage (Ui)  Electric shock protection class  Degree of contamination  Between terminals of same polarity Between each terminal and ground  Conditional short-circuit current  Conventional enclosed thermal current (Ithe)  Weight  Degree of protection  Ambient operating temperature  200,000 operations min.  40 N max.  ENGO947-5-1)  30 V (EN60947-5-1)  800 V (EN60947-5-1)  800 V (EN60947-5-1)  100A (EN60947-5-1)  0.1A (EN60947-5-1)  20 °C to 70 °C (Non-lighted type)  -20 °C to 70 °C (Non-lighted type)  -20 °C to 70 °C (lighted type)  (with no icing or condensation)  Ambient storage temperature	Durability	Mechanical	1,000,000 operations min.	
Rated insulation voltage (Ui)  Electric shock protection class  Degree of contamination  Between terminals of same polarity Between terminals of different polarity Between each terminal and ground  Conditional short-circuit current  Conventional enclosed thermal current (Ithe)  Weight  Degree of protection  Ambient operating temperature  Rated insulation voltage (Ui)  30 V (EN60947-5-1)  800 V (EN60947-5-1)	Durability	Electrical	200,000 operations min.	
Electric shock protection class  Degree of contamination  Between terminals of same polarity Between terminals of different polarity Between each terminal and ground  Conditional short-circuit current  Conventional enclosed thermal current (Ithe)  Weight  Approx. 30 g  Degree of protection  Ambient operating temperature  Ambient storage temperature  Class II  3 (EN60947-5-1)  800 V (EN60947-5-1)  800 V (EN60947-5-1)  800 V (EN60947-5-1)  100A (EN60947-5-1)  -20 °C to 70 °C (Non-lighted type) -20 °C to 70 °C (lighted type) (with no icing or condensation)  4 mbient storage temperature  Ambient operating humidity  Ambient operating temperature	Connector h	olding force	40 N max.	
Degree of contamination   3 (EN60947-5-1)	Rated insula	ation voltage (Ui)	30 V (EN60947-5-1)	
Impulse withstand voltage  Between terminals of same polarity Between terminals of different polarity Between each terminal and ground  Conditional short-circuit current  Conventional enclosed thermal current (Ithe)  Weight  Approx. 30 g  Degree of protection  Ambient operating temperature  Ambient operating humidity  Ambient storage temperature  Between terminals of same polarity  800 V (EN60947-5-1)  100A (EN60947-5-1)  0.1A (EN60947-5-1)  -20 °C to 70 °C (Non-lighted type)  -20 °C to 70 °C (lighted type)  (with no icing or condensation)  Ambient storage temperature  Ambient operating humidity  Ambient storage temperature	Electric sho	ck protection class	Class II	
Impulse withstand voltage   Same polarity Between terminals of different polarity Between each terminal and ground	Degree of co	ontamination	3 (EN60947-5-1)	
Conventional enclosed thermal current (Ithe)  Weight  Degree of protection  Ambient operating temperature  Ambient storage temperature  O.1A (EN60947-5-1)  Approx. 30 g  IP40, IP65  -20 °C to 70 °C (Non-lighted type) -20 °C to 70 °C (lighted type) (with no icing or condensation)  Ambient storage temperature  O.1A (EN60947-5-1)  -20 °C to 70 °C (lighted type) (with no icing or condensation)	Impulse withstand voltage same polarity Between terminals of different polarity Between each		800 V (EN60947-5-1)	
current (Ithe)  Weight Approx. 30 g  Degree of protection  IP40, IP65  -20 °C to 70 °C (Non-lighted type) -20 °C to 70 °C (lighted type) (with no icing or condensation)  Ambient storage temperature  One of the condensation of			100A (EN60947-5-1)	
Degree of protection  IP40, IP65  -20 °C to 70 °C (Non-lighted type) -20 °C to 70 °C (lighted type) (with no icing or condensation)  Ambient storage temperature  IP40, IP65  -20 °C to 70 °C (Non-lighted type) (with no icing or condensation)  Ambient storage temperature  -40 °C to 70 °C (with no icing or condensation)			0.1A (EN60947-5-1)	
Ambient operating temperature  -20 °C to 70 °C (Non-lighted type) -20 °C to 70 °C (lighted type) (with no icing or condensation)  Ambient operating humidity  35 % to 85 % RH  -40 °C to 70 °C (with no icing or condensation)	Weight		Approx. 30 g	
Ambient operating temperature  -20 °C to 70 °C (lighted type) (with no icing or condensation)  Ambient operating humidity  35 % to 85 % RH  -40 °C to 70 °C (with no icing or condensation)	Degree of p	rotection	- 1	
Ambient storage temperature -40 °C to 70 °C (with no icing or condensation)	Ambient operating temperature		-20 °C to 70 °C (lighted type)	
Ambient storage temperature (with no icing or condensation)	Ambient operating humidity		35 % to 85 % RH	
Ambient storage humidity 35 % to 85 % RH	Ambient storage temperature			
	Ambient sto	rage humidity		

# **Operating Characteristics**

Features	A3U
Operating force (OF) max.	4.5 N
Pretravel (PT) max.	3.3 mm
Total travel (TT)	Approx. 3.7 mm

# **Circuit Diagram**



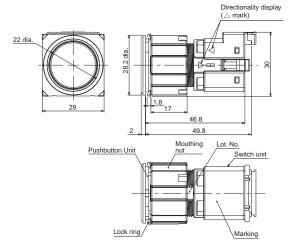
- Note3
  1. This circuits shows the lighted/bipolar type.
  2. SW2 isn't mounted on 1 pole type.
  3. An LED and R aren't mounted on the non-lighted type.

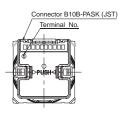
**Dimensions** 

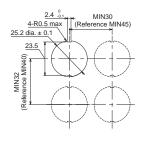
A3U

(unit: mm)







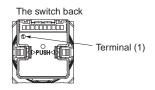


## Safety Precautions

## Refer to Safety Precautions for All Pushbutton Switches/Indicators.

## **Precautions for Safe Use**

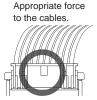
- Do not disassemble or modify the Switch under any circumstances. Doing so may cause malfunction.
- Do not drop or subject the Switch to extreme shock or force. This may prevent the Switch from functioning to its full capability.
- The durability of the Switch varies considerably depending on the switching conditions. Always test the switch under actual working conditions before application and use the Switch only for the number of switching operations allowed.
- Do not allow the load current to exceed the rated value. This may damage or burn out the Switch.
- Refer to the Circuit Diagram and make sure to wire correctly. Only the terminal (1) is printed and the right end of the terminal is read



- Do not use the Switch in locations where explosive or flammable gases or liquid may be present or scattered. The electric ark or the heat caused by switching contacts may trigger off a fire or
- Do not use the Switch in locations where toxic gases, such as H2S, SO2, NH3, HNO3, and Cl2, may be present, or in locations subject to high temperature or humidity. Doing so may damage the Switch due to contact failure or corrosion.
- Do not let the Switch submerged in oil or water, or use in locations continuously subject to splashes of oil/water. Doing so may result in oil or water entering the Switch.
- Do not use the Switch in the following locations;
  - subject to severe temperature changes.
  - subject to high humidity or condensation.
  - subject to severe vibration or shock.
- where direct rays of the sun strike.
- where sea breeze may be present.
- When the Switch is exposed to the environment that are not required, or stored in locations where condensation presents, or damaged by fall out, or stored for more than an year, please test it under the usage conditions before application.
- Mounting and removing the Switch
  - 1. Insert the Operation Unit to the panel from the front. Install the lock ring and mounting nut from the terminal side and tighten the nut. Attach the Switch to the Operation Unit.
  - 2. Align the lock ring with the groove in the casing, and insert it so that its edge is drawn to the panel side.
  - 3. Tighten the nut to the torque of 0.98 to 1.96 N·m.
- 4. Snap on the Switch to the Operation Unit, aligning the arrow marks inscribed on both the Operation Unit and the Switch. Push the Switch into the Operation Unit until it clicks into place.
- 5. The push marks on both sides are only for detaching. Do not push them when you insert the Switch Unit to the Operation Unit. Otherwise, the Operation Unit is hooked wrongly.
- 6. To remove the Switch, push to move the levers on both sides in the direction indicated by PUSH mark. Applying too much holding force may damage the Switch.
- Wiring
  - 1. Do not wire the Switch while power is being supplied. Doing so may result in electric shock.
  - 2. Make sure to insert the connector to the end. This may prevent the Switch from functioning to its full capability.
  - 3. Do not subject the Switch to an excessive force when wiring. Fix the cables first to avoid the connector and cables from being pulled with. Otherwise, the connector may be disassembled or damaged, resulting in the contact damages.

Too much tension to the cables





4. Refer to specification of each connector or catalogue for details of installing or wiring the terminal side of the connector.

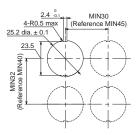
#### Recommended connector;

Manufacture	Name	Model	Applicable lead wire
	Contact	SPHD-002T-P0.5	AWG#26 to 22
J.S.T. Mfg Co.	Contact	SPHD-001T-P0.5	AWG#28 to 24
	Housing	PAP-10V-S	AWG#28 to 22

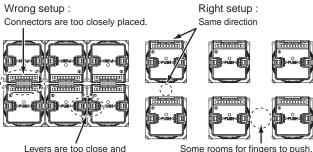
· Choose the applicable contact to the wire.

#### **Precautions for Correct Use**

- Operating Environment
  - 1. This Switch is intended for indoor use only. Do not use the Switch outdoors.
  - 2. Do not set the Switch in locations where powders, mud, or any other substances may be piled, or subject to any splashes of oil or water. Always test the switch under actual working conditions before application.
- · Mounting panels
  - 1. Set mounting panel thickness to be 0.8 to 3.2 mm.
  - 2. The panel dimension is set as below;
    - The value in ( ) indicated below is the minimum value suggested for easy detaching of the Switch.
    - Minimum panel pitch is 30/32 mm. Consider the flexibility and allowance of detaching and wiring, set the pitch to the appropriate value.



- Leave some spaces for a finger between panels, so as to pinch the levers
- Place the panels in the same direction. Do not set the connectors face to face for easy removal.



cannot be pushed

Some rooms for fingers to push.

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- Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. Prices: Payment Terms. All prices stated are current, subject to change without notice by Omron. Omron reserves the right to increase or decrease prices on any unshipped portions of outstanding orders. Payments for Products are due net 30 days unless otherwise stated in the invoice. Discounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms and (ii) Buyer has no past due amounts.

- and (ii) Buyer has no past due amounts.

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- - except in "break down" situations.
    b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall
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  (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.

  (ii) Use in consumer products or any use in significant quantities.

  (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject and industrial consumers and consumers are consumers and status of the consumers and consumers.
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