

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*

^{*} 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
Plateau Head Pushbutton Switch Non-ligh			5 VDC	A3UL-TB□-1A1C-M	W : Transparent
		SPDT	12 VDC	A3UL-TB□-2A1C-M	R: Red Y: Yellow G: Green U: Umber A: Blue
	LED		24 VDC	A3UL-TB□-3A1C-M	
	LED	DPDT	5 VDC	A3UL-TB□-1A2C-M	
			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 %

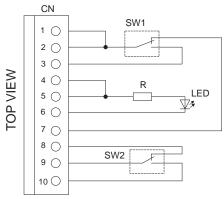
Characteristics

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 terminals and all the other terminals and all the other terminals of (malfunction within 1 ms) Shock resistance Malfunction Mechanical 1,000,000 operations min. Electrical 200,000 operations min. Electrical 200,000 operations min. Electric shock protection class Degree of contamination Between terminals of different polarity Between each terminal and ground Between all the other terminals of different polarity Between terminal and ground Sont-circuit current (Ithe) Conventional enclosed thermal current (Ithe) Conventional enclosed thermal current (Ithe) Conventional temperature Conventiona		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 and all the other terminals and the other terminals and the other terminals and the other terminals and the other terminals of the other ter	Insulation re	esistance		
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 m $Ω$ max. (initial value)	
Dielectric strength Between each terminaland ground Between all LED terminals and all the other terminals Vibration resistance Malfunction Mechanical Electrical Connector holding force Rated insulation voltage (Ui) Between terminals of different polarity Between each terminals of different polarity Between each terminal and ground Conditional short-circuit current Conventional enclosed thermal current (Ithe) Meight Degree of protection Ambient operating humidity Ambient storage temperature different polarity Between tempinal to 1,500 VAC, 50/60 Hz for 1 minute 100 VAC, 50/60 Hz fo		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 Impulse withstand voltage Withstand voltage Withstand voltage Weight Conventional enclosed thermal current (Ithe) Weight Ambient operating humidity 1,500 VAC, 50/60 Hz for 1 minute 500 VAC, 50/60 Hz for 1 minute 100 VAC, 50/60 VAC, 50/60 VA 100		different polarity	500 VAC, 50/60 Hz for 1 minute	
Ambient storage temperature Sout VAC, 50/60 Hz for 1 minute	strength		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) Weight Degree of protection Ambient operating humidity Ambient storage temperature Mechanical 1,000,000 operations min. 200,000 operations min. Conventions min. Class II 30 V (EN60947-5-1) Electric shock protection class Class II 800 V (EN60947-5-1)			,	
resistance Durability Mechanical 1,000,000 operations min. Electrical 200,000 operations min. Connector holding force 40 N max. Rated insulation voltage (Ui) 30 V (EN60947-5-1) Electric shock protection class Class II Degree of contamination 3 (EN60947-5-1) Impulse withstand voltage Between terminals of same polarity Between each terminal and ground Conditional short-circuit current 100A (EN60947-5-1) Conventional enclosed thermal current (Ithe) 0.1A (EN60947-5-1) Weight Approx. 30 g Degree of protection IP40, IP65 Ambient operating temperature 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)		Malfunction		
Connector holding force			300 m/s ² 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. Betwe64 N max. 30 V (EN60947-5-1) 800 V (EN60947-5-1) 90.1A (EN60947-5-1) 90.1A (EN60947-5-1) 100.1A (EN60947-5-1) 20 °C to 70 °C (Non-lighted type) 90.20 °C to 70 °C (Non-lighted type) 90.20 °C to 70 °C (lighted type) 90.20 °C to 70 °C (lighted type) 90.20 °C to 70 °C (with no icing or condensation) 800 V (EN60947-5-1)	Durability	Mechanical		
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 Ambient operating temperature Ambient storage temperature Ambient storage temperature Class II 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 humidity Ambient operating temperature	Connector h	olding force	40 N max.	
Degree of contamination 3 (EN60947-5-1)		<u> </u>	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 Between terminals of different polarity Between terminals of same polarity Between each terminal and ground 100A (EN60947-5-1) 0.1A (EN60947-5-1) 20 °C to 70 °C (Non-lighted type) -20 °C to 70 °C (Iighted type) (with no icing or condensation)	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 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 Ambient storage temperature O.1A (EN60947-5-1) -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)	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	Conditional	short-circuit current	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 (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)	
(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



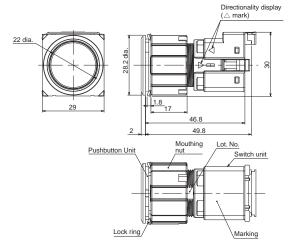
- Note3
 1. This circuits shows the lighted/bipolar type.
 2. SW2 isn't mounted on 1 pole type.
 3. An LED and R aren't mounted on the non-lighted type.

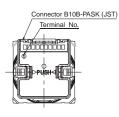
Dimensions

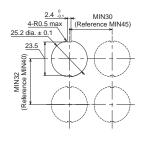
A3U

(unit: mm)







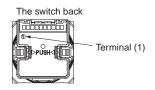


Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

Precautions for Safe Use

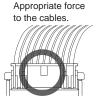
- Do not disassemble or modify the Switch under any circumstances. Doing so may cause malfunction.
- Do not drop or subject the Switch to extreme shock or force. This may prevent the Switch from functioning to its full capability.
- The durability of the Switch varies considerably depending on the switching 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.

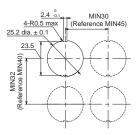
Recommended connector;

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

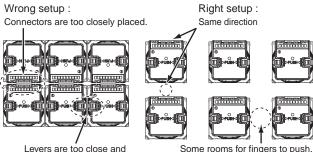
· Choose the applicable contact to the wire.

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

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 a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship
- - except in "break down" situations.
 b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
 - c. All sales and shipments of Products shall be FOB shipping point (unless oth-
- c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
 d. Delivery and shipping dates are estimates only; and
 e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.

 12. Claims. Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Products. portation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
- Warranties. (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

 (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-

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- "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of regulated technology or information.

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- Suitability of Use. Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide application of use of the Froduct. At Buyer's request, control will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given:

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 (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 systems are used to see the construction of the construc
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 - NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO

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- to confirm actual specifications of purchased Product.

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