

Product No. and Name (This document is applied to the following products.)

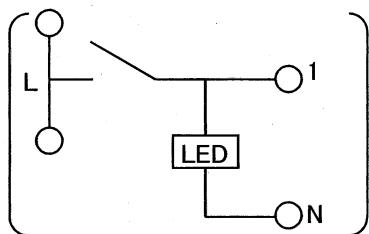
Product No.	Product Name
WEGN5341	INITIO SERIES Glow Switch "B", single pole (3-wire) 3-Device, Quick Connect Terminal 16 AX 250 V ~
WEGN5341B	INITIO SERIES Glow Switch "B", single pole (3-wire) 3-Device, Quick Connect Terminal 16 AX 250 V ~ (Black)
WEGN5341H	INITIO SERIES Glow Switch "B", single pole (3-wire) 3-Device, Quick Connect Terminal 16 AX 250 V ~ (Gray)

## 2. TYPE

2-1 Rating : 16 AX 250 V ~

2-2 Contact Method : Silver alloy – Silver alloy contact

2-3 Circuit : Single pole (Switch "B" / Pattern No.1 on IEC 60669-1)



2-4 Terminal : Screw less Terminal (Quick Connect Terminal)

## 3. GUARANTEED QUALITY

3-1 Shape and dimension : As per attached specification drawing

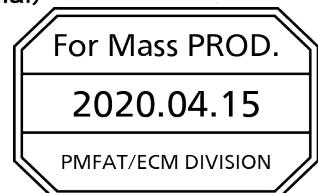
3-2 Performance

• Testing methods are based on IEC 60669-1ed.4 (2017)

(INTERNATIONAL ELECTROTECHNICAL COMMISSION 60669-1)

Switches for household and similar fixed-electrical installations

• Following are tested at normal temperature 20°C ± 5°C



Resistance to ageing	Temperature : 70 °C ± 2 °C for 168 hours (7 days)
Resistance to humidity	Temperature : 25 °C ± 5 °C Humidity : 91 % to 95 % for 48 hours (2 days)
Insulation resistance (Insulation tester : 500V DC)	1. Between all poles connected together and the body, with the switch in the "On" position. : Not less than 5 MΩ 2. Between each pole in turn and metal foil in contacted to the body, with the switch in the "On" position : Not less than 2 MΩ 3. Between the terminals which are electrically connected together when the switch is in the "On" position, the switch being in the "Off" position : Not less than 2 MΩ
Electric strength	1. Between all poles connected together and the body, with the switch in the "On" position. : 2000V for 1 minute 2. Between each pole in turn and metal foil in contacted to the body, with the switch in the "On" position : 2000V for 1 minute 3. Between the terminals which are electrically connected together when the switch is in the "On" position, the switch being in the "Off" position : 2000V for 1 minute

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Temperature rise	Test current : 20 A (2.5 mm <sup>2</sup> ) Not more than 45K(terminal)																																								
Making and breaking capacity	<table border="1"> <tr> <th>Voltage(V)</th> <th>Current(A)</th> <th>Power factor</th> <th>Number of operation</th> <th>Operation Rate (times/min.)</th> </tr> <tr> <td>275 V</td> <td>20 A</td> <td>0.3±0.05</td> <td>200</td> <td>15</td> </tr> <tr> <td>※ 250 V</td> <td>19.2 A</td> <td></td> <td>200</td> <td>15</td> </tr> </table> <p>※ tungsten filament lamp</p>					Voltage(V)	Current(A)	Power factor	Number of operation	Operation Rate (times/min.)	275 V	20 A	0.3±0.05	200	15	※ 250 V	19.2 A		200	15																					
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SBL	170	9	200	40,000																																					
Mechanical strength (impact-test)	Height of falls : 80 mm      striking element : 250 g 9 hit points																																								
Ball-pressure test	<p>The parts which is necessary to retain current-carrying parts. Temperature : 125 °C ± 2 °C Force : 20 N for 1 hour</p> <p>The parts which is not necessary to retain current-carrying parts. Temperature : 70 °C ± 2 °C or 40 °C ± 2 °C plus the highest temperature rise Force : 20 N for 1 hour</p>																																								
Glow-wire test	<p>The parts which is necessary to retain current-carrying parts. Temperature : 850 °C for 30 seconds</p> <p>The parts which is not necessary to retain current-carrying parts. Temperature : 650 °C for 30 seconds</p>																																								
Resistance of rusting	10 % solution of ammonium chloride in water for 10 minutes																																								
Performance of screw less terminal	Wire pull test		30 N for 1 minute																																						
	Wire circular-motion test		(10 ± 2) rev./min. for 15 minutes																																						
	The voltage drop		Not more than 15 mV																																						
	Terminal heat cycle		The difference between the voltage drop at 24 cycle and that 192 cycle shall not exceed 22.5 mV or two times The value measured after 24 cycle, whichever is the smaller.																																						
	Bending strength		1.5 mm <sup>2</sup> : 0.5 N      2.5 mm <sup>2</sup> : 1 N The voltage drop : Not more than 25 mV																																						

Note : In this specification, units are in accordance with the International System of Units (SI) based on International Electro technical Commission (IEC).

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#### 4. ENVIRONMENTAL CONDITIONS

4-1 Ambient Temperature : -10 °C to + 40 °C

#### 4-2 Installation

- (1) This switch is designed only for indoor use.
- (2) This switch is not allowed to use in job sites which is subject to get severe handling and in damp place open air and under the eaves.

#### 5. CONDITION FOR USE

##### 5-1 Connection System

###### (1) Application Wire

1.5 mm<sup>2</sup> – 4 mm<sup>2</sup> Only Rigid (Solid or Stranded) Copper Conductor Type  
15 AWG – 12 AWG

Note :

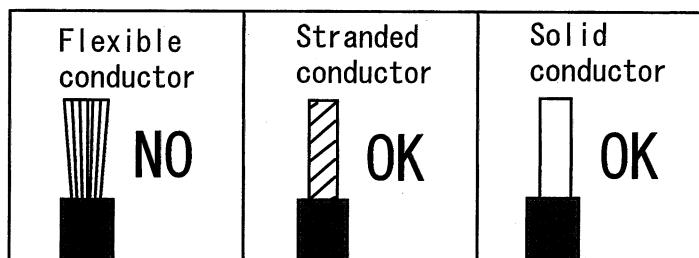
The 1 mm<sup>2</sup> solid wire can be used at only less than 6 A.

Do not connect 1 mm<sup>2</sup> solid wire to the terminal which has been connected with wire thicker than 1 mm<sup>2</sup> wire.

Only use the applicable wire ( Thickness & Rated current ).

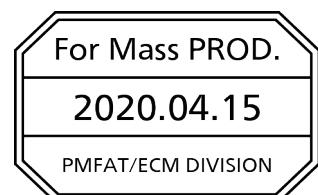
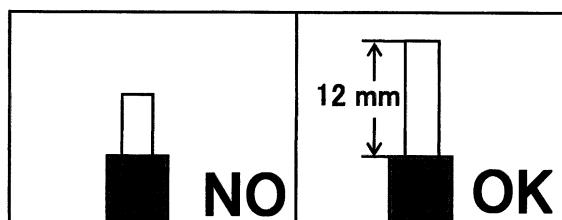
Please make it sure before connecting to the terminal.

Warning : Never use other types of conductors than those specified above.  
or, it may result in heating or faulty contact in the wiring.



###### (2) Connection method

- (i) Strip off the covering of the conductor by 12 mm in accordance with the strip-off gauge provided on the rear side of the switch.

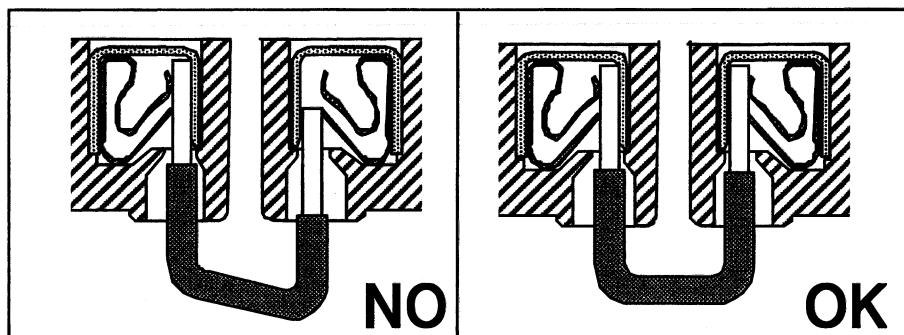
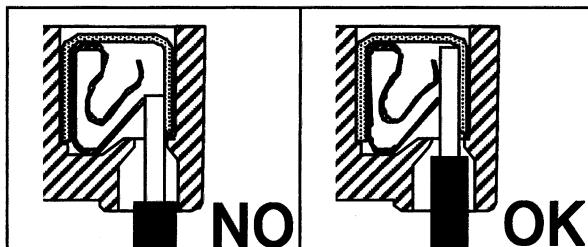


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(ii) Insert each of the conductor until it lands on the bottom of the hole.



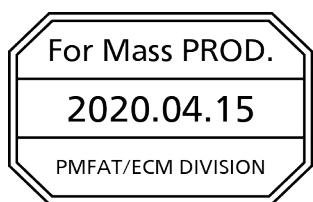
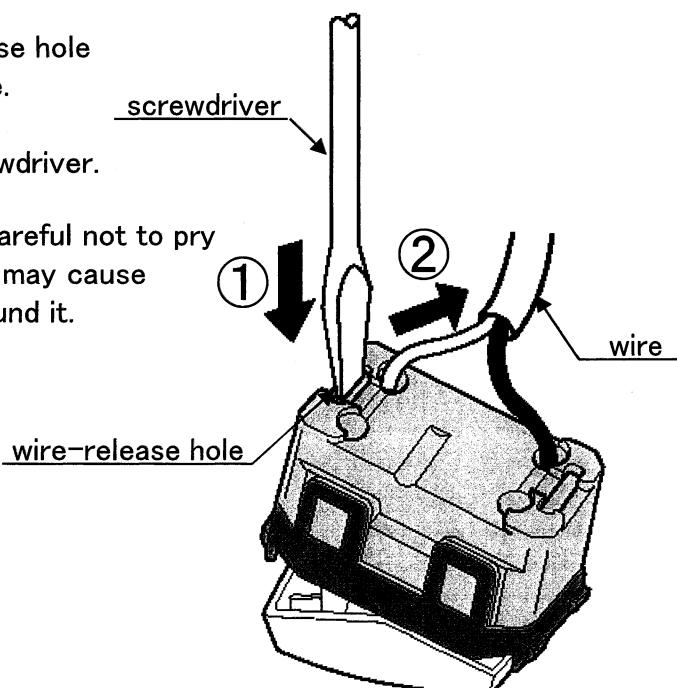
Warning : Be careful not to pull or twist the connected conductor with an excessive force to avoid damaging the conductor

## 5-2 Disconnection method

(1) Insert an screwdriver( medium or small size) straight into the wire-release hole until it lands on the bottom of the hole.

(2) Extract the wire and pull out the screwdriver.

Warning : When disconnecting the wire, be careful not to pry it out with the screwdriver, which may cause cracking off the molded parts around it.



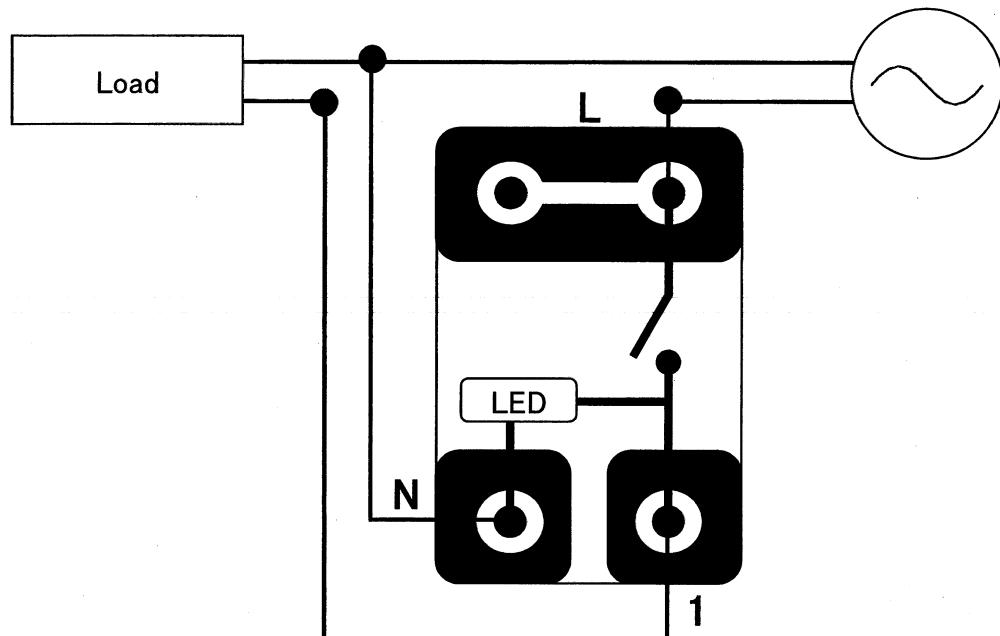
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### 5-3Notes on Installation

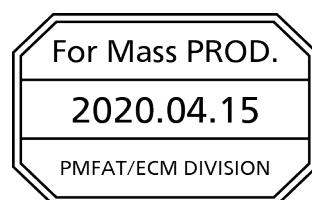
(1)The product requires 3 wire connections.



(2) LED doesn't glow, when replacing from single pole switches.

Additional installation in wiring is required.

**Caution : Wrong connections may cause short circuit, malfunction of loads or a built-in LED, and other possible faults.**



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## 6. CAUTIONS FOR SAFE USE

We are not liable for any problems caused by noncompliance with the following items.

### 6-1 Cautions during use

#### (1) Improper connection

When connecting this product, follow the details in the specification  
(See "5 : CONDITION FOR USE").

An improper connection may cause electric shock, abnormal heating or  
Ignition in the terminals.

#### (2) Improper use

When using this product, follow the details in the specification  
(See "4:ENVIRONMENTAL CONDITIONS").

If you use the product in an unsuitable place, such as outdoors, an insulation  
fault in the appliance may cause electric shock or short circuit.

DO NOT use the electric wire if it has a damaged cover.

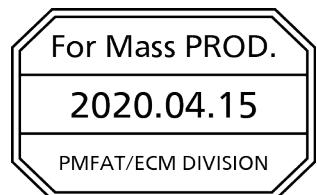
Faulty insulation may cause electric shock or short circuit.

DO NOT pull or twist the connected wire with excessive force.

The core of the wire may be damaged, causing abnormal heating or ignition  
in the terminals.

DO NOT use soldered flexible or stranded wire.

It may cause abnormal heating or ignition in the terminal.



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