EGE	EXCEL CELL ELECTRONIC CO., LTD.	NO.		A31229)
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ECS - INDUSTRIAL CONTROL SWITCH PILOT LAMP

1. FEATURES

- Detachable contact block for easy installation and removal. It can meet variety of needs and improve work efficiency.
- IP65 waterproof type. It is designed for liquid and oil prevention and enables to be used in different environment.
- In accordance with the standards of UL, cUL, CE, CCC, and TUV.

2. SPECIFICATIONS

2-1. ELECTRICAL

2-1-1. Rated thermal current 10A 2-1-2. Rated insulation voltage 650V

2-1-3. Dielectric strength 2500V AC, 1 min.

2-2. MECHANICAL AND ENVIRONMENTAL

2-2-1. Operating temperature -25° C $\sim +55^{\circ}$ C (for illuminated type)

2-2-2. Storage temperature -40° C ~ +85 $^{\circ}$ C

2-2-3. Humidity 45% ~ 85% RH

2-2-4. Degree of protection IP65 (from the front of the panel)

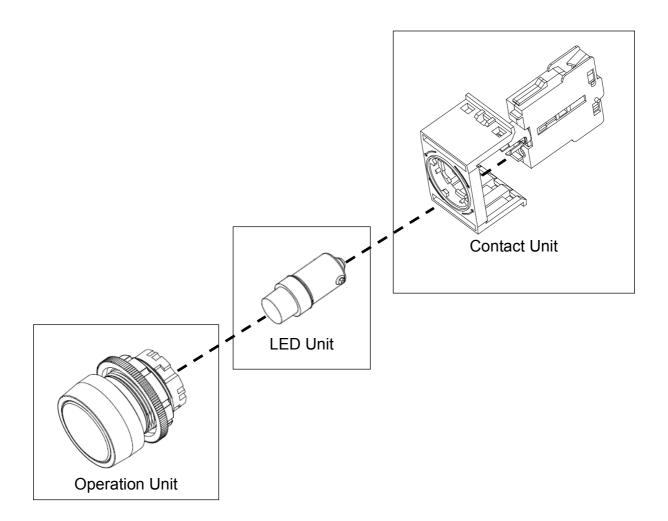
2-2-5. Degree of contamination 3 (IEC 60947-5-1)

2-2-6. Vibration resistance 10-55Hz amplitude 0.5mm 2-2-7. Shock resistance 1000 m/s²(100G)(destruction)

2-2-8. Connection type M3.5 screw connection

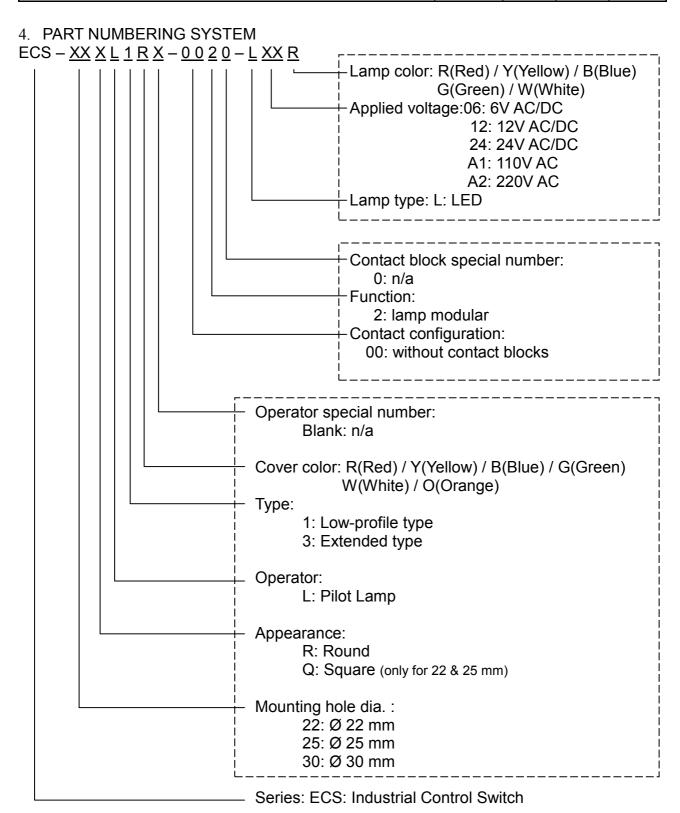
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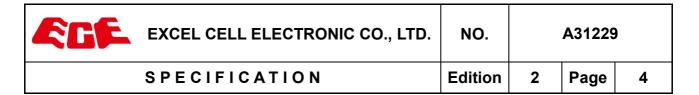
3. CONSTRUCTION



- Operation unit, LED unit, and contact unit (contact blocks) can be sold separately.
- Please see [4.Part numbering system] for operation unit part number. For other accessories (LED lamp, contact block, etc.), please refer to accessory part in catalog.

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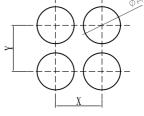
5. INSTALLATION

5-1. Panel thickness

- The panel thickness must be 1 to 7 mm.
- Take into consideration about the thickness of accessories (such as name plate, switch guard, etc.) while using.

5-2. Panel cutout

Cutout diameter and distance

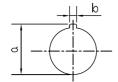


			Offic. Hilli
	22R / 25R	22Q / 25Q	30R
A	22.3/25.3 ^{+0.4} _{- 0}	22.3/25.3 ^{+0.4} _{- 0}	30.5 ^{+0.5} _{- 0}

Unit: mm

	22R / 25R	22Q / 25Q	30R	Long Lever Selector Switch Emergency Stop Switch
X	30	32	50	50
Υ	50	50	65	50

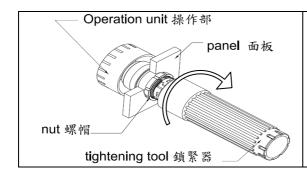
■ Key recess cutout (22mm only)



		Unit: mm
Mounting Hole(Ø)	а	b
22	24.1 ^{+0.5} _{- 0}	3.2 ^{+0.2} ₋₀

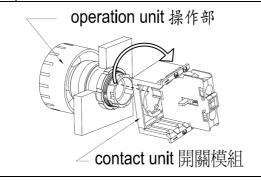
I Init: mm

■ Panel installation



- 1. Place the operation unit through panel mounting hole.
- 2. Install the nut by using tightening tool.
- 3. Make sure the operation unit fix on the panel firmly.

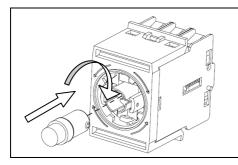
5-3. Operation unit and contact unit installation



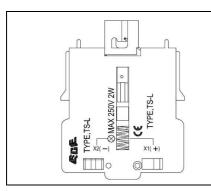
- 1. Fix the operation unit on the panel.
- 2. Connect the operation unit with snap-fit joint part of contact unit.
- 3. Rotate contact unit to fix firmly as shown in the left figure.

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5-4. LED lamp installation



- 1. Aim LED lamp to the lamp holder and press down to the bottom.
- 2. Rotate the LED lamp to make sure the lamp is firmly installed.
- 3. While installation and removal, please hold the metal part of LED lamp to avoid damaging LED lamp.



- When using DC LED lamp, please connect the positive pole (+) to X1 terminal as shown in left figure.
- 2. The LED lamp may be erroneously lightened by a leaking current from the circuit. The malfunction can be prevented by connecting a shunt resistor in parallel with the LED lamp.

(6) QC inspection stamp

(7) Company mark

(8) Company name

(9) Notice

6. PACKAGING

- 6-1. ECS product is packed without assembly (packed by set), 10 sets per box.
- 6-2. Label information
 - (1) part number
 - (2) Lot number
 - (3) Quantity
 - (4) Tester number
 - (5) Date code
- 7. DIMENSIONS
 - 7-1. See attached drawings
- 8. OPTIONS
 - 8-1. Key recess type operation unit is available (22mm only)
 - 8-2. Ø22mm and Ø25mm type have the same structure. Different thickness of O-rings can be ordered separately to fit into Ø22mm and Ø25mm hole in the panel.
 - 8-3. LED Specification

LED Type	BA9S-T8
Durability(reference)	Approx. 50,000 Hrs.
Voltage	Printed on the LED

8-4. For other accessories (name plate, control box, and etc.), please refer to accessory part in the catalog.

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9. REMARK

9-1. Safety Certification

Safery Standard	Certification
UL-508	UL / cUL , file NO. E155181
CSA C22.2 NO.4	0E7 COE, IIIE NO. E133101
EN60947-5-1	R50363071
EN60947-5-5 (Emergency Stop Switch)	R50362996
CCC GB14048.5	2016010305912684

9-2. CAUTION

- To prevent injury, this device must be disconnected from all power sources prior to wiring and other initiating work.
- Use tightening tool when installing the operation unit in the panel cutout. Do not use pliers and do not tighten excessively, otherwise the operation unit may be damaged.
- Make sure contact blocks are firmly fixed on contact holder during assembly. It will avoid contact blocks separated from holder during operation.

