 EXCEL CELL ELECTRONIC CO., LTD.	NO.	A31256		
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ECS - INDUSTRIAL CONTROL SWITCH PILOT LAMP (SMALL COMPACT SIZE)

1. FEATURES

- Detachable contact block for easy installation and removal. It can meet variety of need and improve work efficiency.
- IP65 waterproof type. It is designed for liquid and oil prevention and enables to be used in different environment.
- Short contact unit design to save more space.
- The safety design of slide locking holder is not only for easy installation and removal, but also for prevention of inappropriate installation of contact blocks.
- In accordance with the standards of UL, cUL, CE, CCC, and TUV.

2. SPECIFICATIONS

2-1. LED

- | | |
|--------------------------|---------------------|
| 2-1-1. LED type | BA9S-T8 |
| 2-1-2. Durability [ref.] | Approx. 50,000 Hrs. |
| 2-1-3. Voltage mark | Printed on the LED |
| 2-1-4 | |

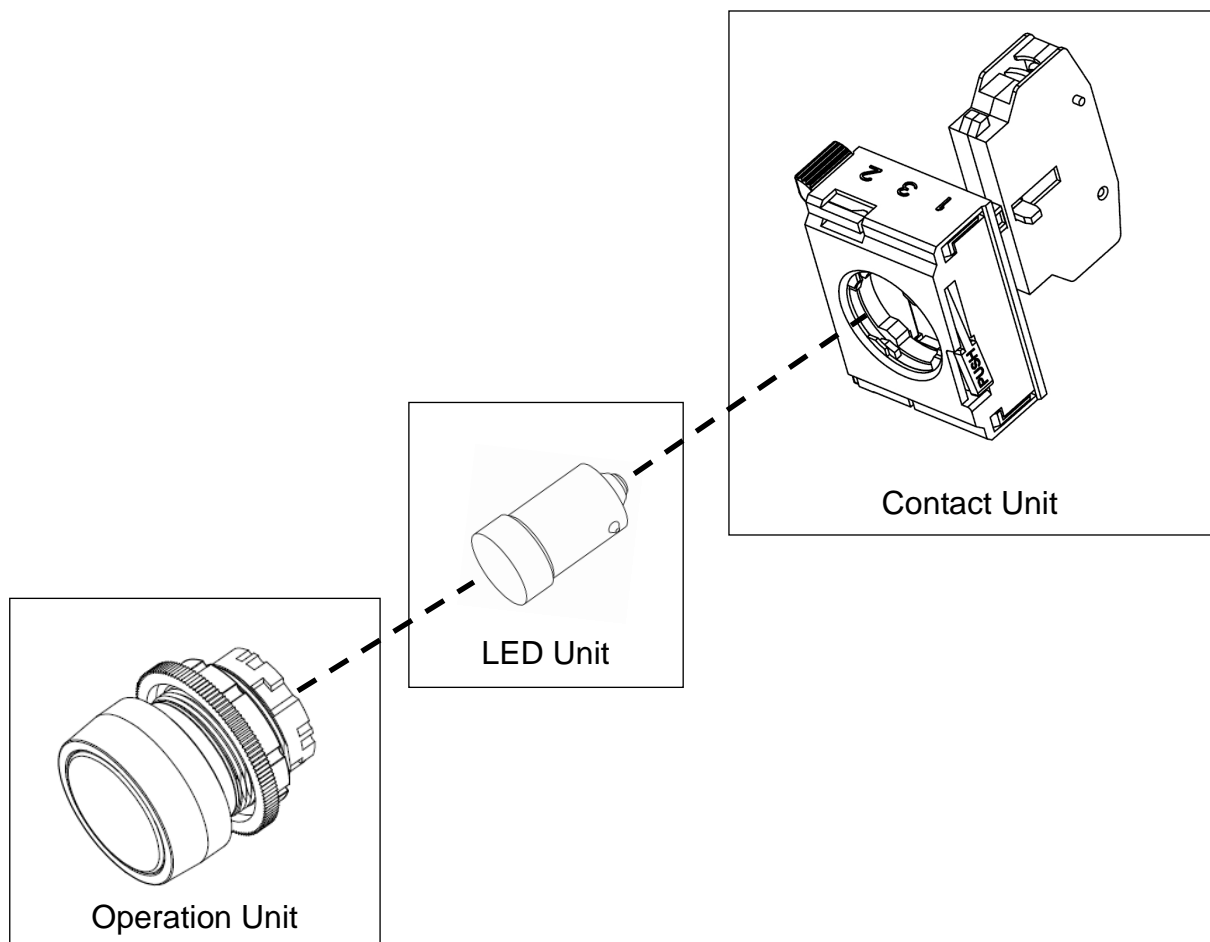
Rated voltage	Rated current(±10% mA)
6V AC/DC	14 mA
12V AC/DC	10 mA
24V AC/DC	13 mA (R / W) 12 mA (G) 11.5 mA (B /Y)
110V AC	6 mA
220V AC	2.2 mA

2-2. MECHANICAL AND ENVIRONMENTAL

- | | |
|--------------------------------|---|
| 2-2-1. Operating temperature | -25°C ~ +55°C (without icing or condensation) |
| 2-2-2. Storage temperature | -40°C ~ +85°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 single amplitude 0.5mm |
| 2-2-7. Shock resistance | 1000 m/s ² (100G)(destruction) |
| 2-2-8. Connection type | M3.5 screw connection |

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3. CONSTRUCTION

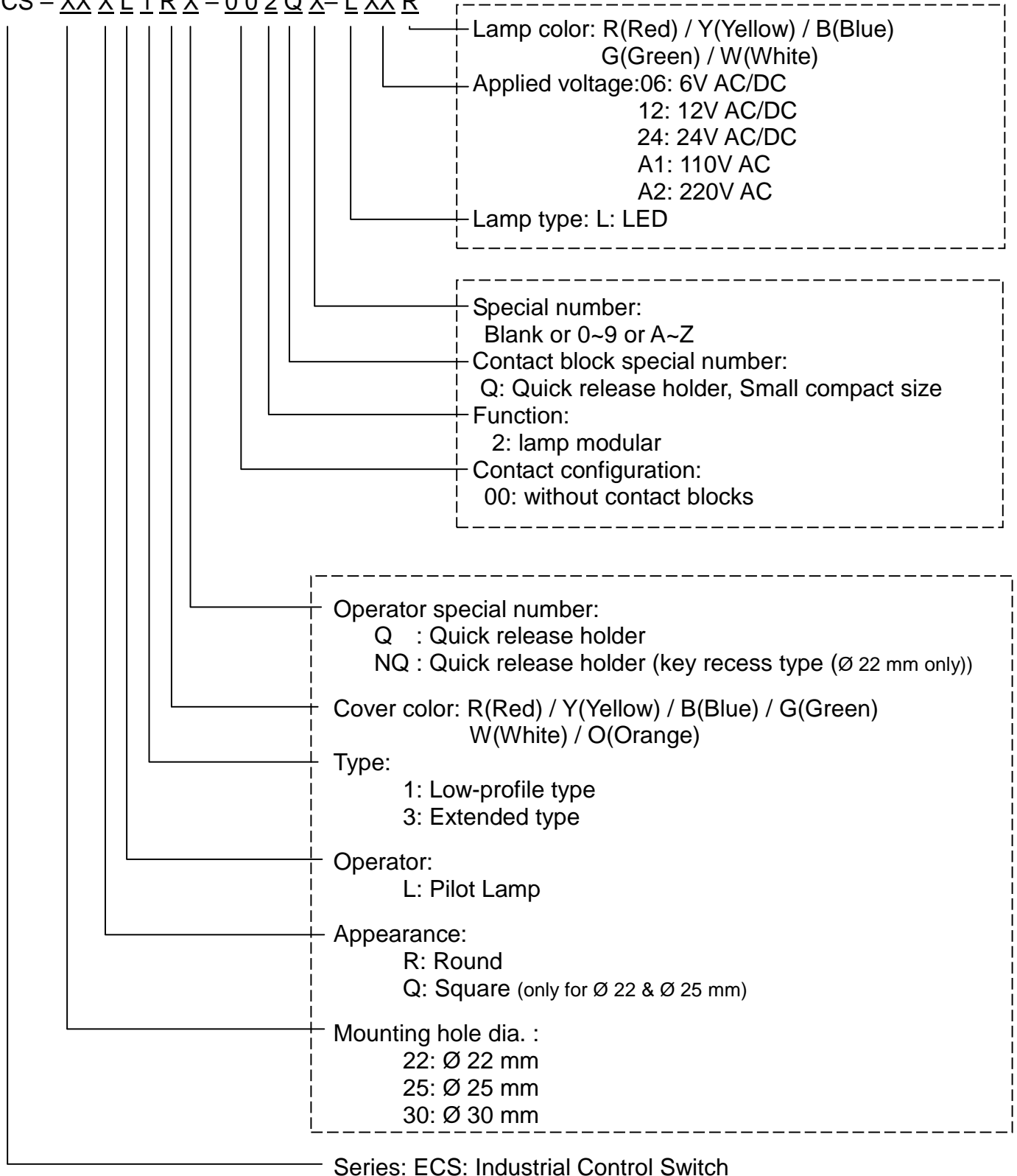


- Operation unit, LED unit, and contact unit (contact blocks) can be sold separately. Please see [4.Part numbering system] for operation unit part number. For other accessories (LED lamp, contact block, etc.), please refer to accessory part in catalog.



4. PART NUMBERING SYSTEM

ECS - XX XL 1RX - 002 QX - L XX R



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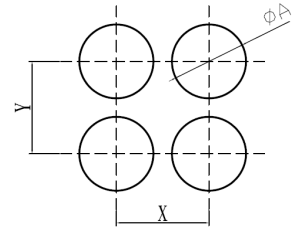
5. INSTALLATION

5-1. Panel thickness

- The panel thickness must be 1 to 6 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



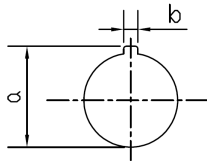
Unit: mm

	22R / 25R	22Q / 25Q	30R
A	22.3/25.3 $\begin{smallmatrix} +0.4 \\ -0 \end{smallmatrix}$	22.3/25.3 $\begin{smallmatrix} +0.4 \\ -0 \end{smallmatrix}$	30.5 $\begin{smallmatrix} +0.5 \\ -0 \end{smallmatrix}$

Unit: mm

	22R / 25R	22Q / 25Q	30R	Long Lever Selector Switch Emergency Stop Switch
X	50	50	50	50
Y	55	55	65	55

- Key recess cutout (Ø 22mm only)



Unit: mm

Mounting Hole(Ø)	a	b
22	24.1 $\begin{smallmatrix} +0.5 \\ -0 \end{smallmatrix}$	3.2 $\begin{smallmatrix} +0.2 \\ -0 \end{smallmatrix}$

- Panel installation

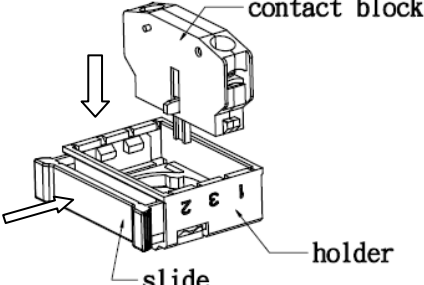
1. Place the operation unit through panel mounting hole.
2. Install the nut by using tightening tool.
3. Make sure the operation unit fix on the panel firmly.

5-3. Operation unit and contact unit installation

1. Fix the operation unit on the panel.
2. Press the lever and connect the operation unit with contact unit.
3. Release the lever.

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5-4. Contact block installation

	<ol style="list-style-type: none"> 1. Open the slide. 2. Contact block needs to fit with holder position correctly. 3. Close the slide completely. <p>(If you are unable to close the slide completely, please check the correctness of contact block installation.)</p>
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6. PACKAGING

6.1. ECS product is packed without assembly (packed by set), 10 sets per box.

6.2. Label information

- | | |
|-------------------|-------------------------|
| (1) part number | (6) QC inspection stamp |
| (2) Lot number | (7) Company mark |
| (3) Quantity | (8) Company name |
| (4) Tester number | (9) Notice |
| (5) Date code | |

7. DIMENSIONS

7-1. See attached drawings

8. OPTIONS

8-1. Key recess type operation unit is available (Ø 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. For other accessories (name plate, control box, and etc.), please refer to accessory part in the catalog.

9. REMARK

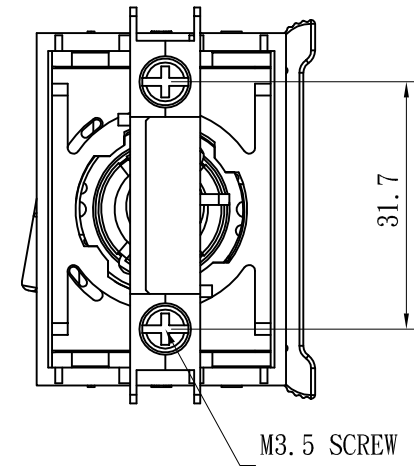
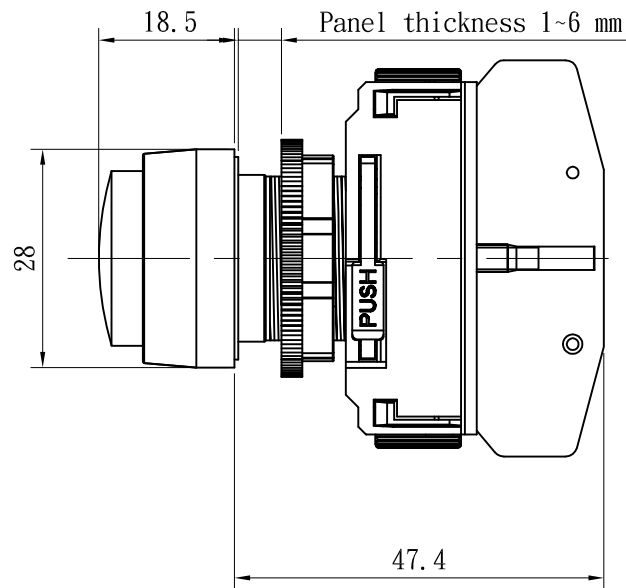
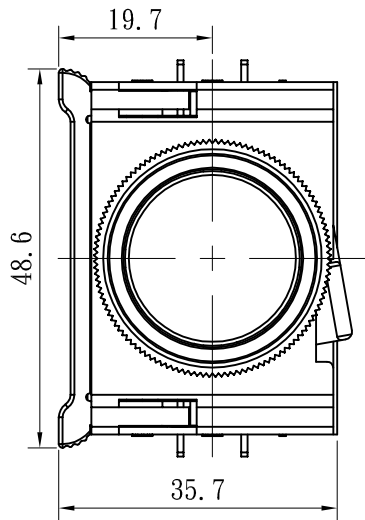
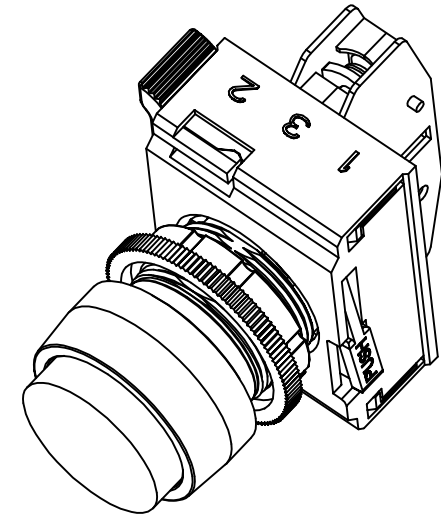
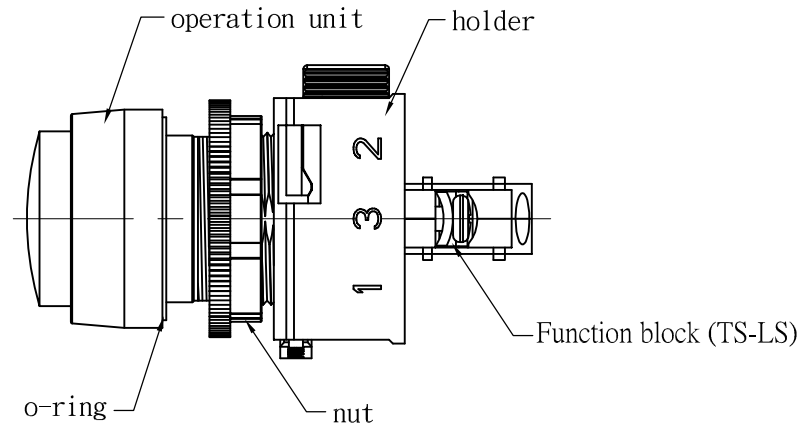
9-1. Safety Certification


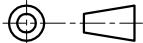
Safety Standard	Certification
UL-508	UL / cUL , file NO. E155181
CSA C22.2 NO.14	
EN60947-5-1	R50363071
EN60947-5-5 (Emergency Stop Switch)	R50362996

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.

ECS-22RL3XX-XXXQ



				NORMAL TOLERANCE		 EXCEL CELL ELECTRONIC CO., LTD.				PART NUMBER		ECS-22RL3XX-XXXQ							
				RANGE	TOLERANCE					UNIT		MM (INCH)		PART NAME		ECS			
				0-1	±0.1	CHECK	Allen Shi	DESIGN	Alice Lin	DRAWN	Alice Lin	SCALE		1:1					
				1-4	±0.3							SIZE		A4		FILE NAME		76922RLXXQA.DWG	
				4-16	±0.5							PROJECTION				EDITION		A	
				16-63	±0.8														
				63-250	±1.0														
NO.	DETAILS	ALTERED BY	DATE																