EGE	EXCEL CELL ELECTRONIC CO., LTD.	NO.		A31230)
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ECS - INDUSTRIAL CONTROL SWITCH EMERGENCY STOP

1. FEATURES

- Pushlock turn reset function
- 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	ΕI	EC.	TRI	CAL
Z- I	. CL		ΙNΙ	CAL

2-1-1. Rated thermal current 10A 2-1-2. Rated insulation voltage 2-1-3. Utilization category

2-1-4. Minimum switching capacity [ref.]

2-1-5. Dielectric strength 2-1-6. Insulation resistance 2-1-7. Contact resistance

2-2. MECHANICAL AND ENVIRONMENTAL

2-2-1. Operating temperature

2-2-2. Storage temperature

2-2-3. Humidity

2-2-4. Degree of protection 2-2-5. Degree of contamination

2-2-6. Vibration resistance

2-2-7. Shock resistance

2-2-8. Mechanical Life

2-2-9. Electrical Life

2-2-10. Operation Force(from 1a1b)[ref.]

2-2-11. Operation travel 2-2-12. Connection type 2-2-13. Direct opening action 650V

AC-15(A600) or Ue 240V / le 3A Ue 380V / le 1.9A

DC-13(P600) or Ue 250V / le 0.55A

3V DC/AC, 5mA 2500V AC. 1 min. $100M\Omega$ min. at 500V DC

 $50m\Omega$ max. (initial)

-25°C ~ +70°C

(without icing or condensation)

 -25° C ~ $+55^{\circ}$ C (for illuminated type)

-40°C ~ +85°C 45% ~ 85% RH

IP65 (from the front of the panel)

3 (IEC 60947-5-1)

10-55Hz single amplitude 0.5mm

100 m/s²(10G)(malfunction) 1000 m/s²(100G)(destruction)

300,000 operations

frequency 1800 operations/hr

100,000 operations

frequency 1800 operations/hr

30N

over 4 mm

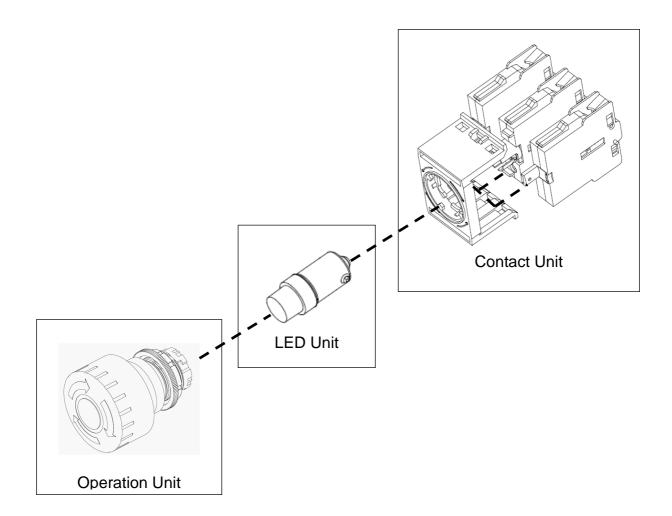
M3.5 screw connection

Direct opening mechanism of NC

contact to open the circuit→

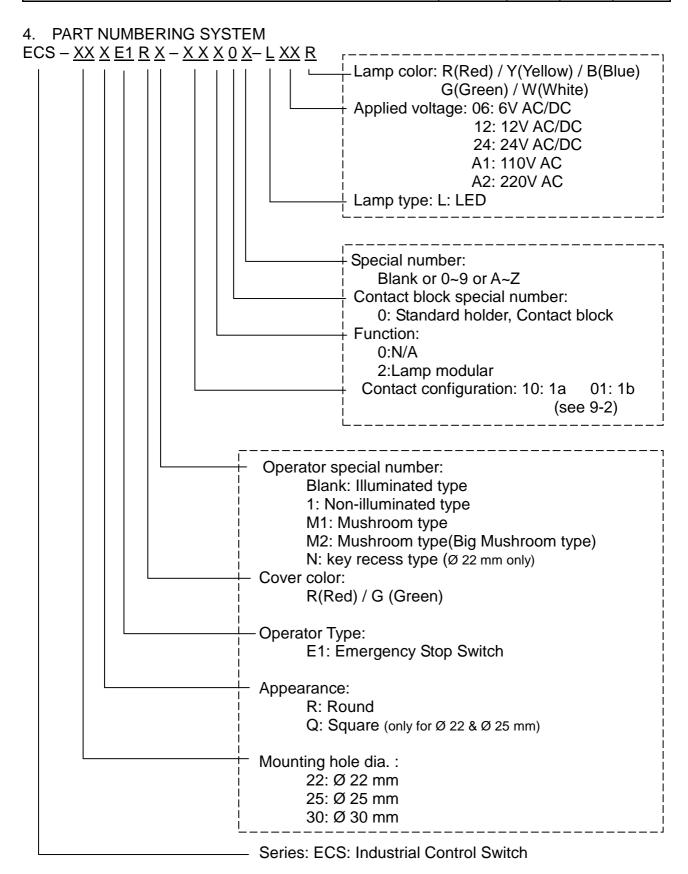
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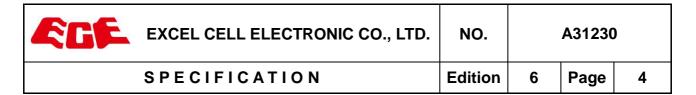
3. CONSTRUCTION



- 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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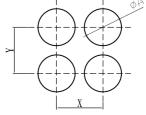
5. INSTALLATION

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

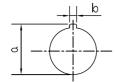


			Unit: mm
	22R / 25R	22Q / 25Q	30R
Α	22.3/25.3 ^{+0.4} _{- 0}	22.3/25.3 ^{+0.4} _{- 0}	30.5 ^{+0.5} _{- 0}

Unit: mm

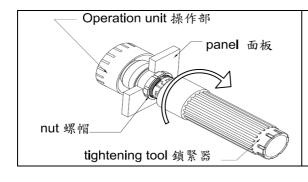
	22R / 25R	22Q / 25Q	30R	Long Lever Selector Switch Emergency Stop Switch
X	30	32	50	50
Υ	50	50	65	50

■ Key recess cutout (Ø 22mm only)



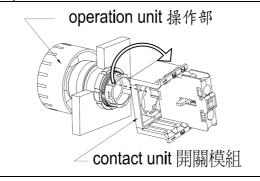
		Unit: mm
Mounting Hole(Ø)	а	b
22	24.1 +0.5	3.2 +0.2

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.

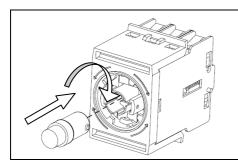
5-3. Operation unit and contact unit installation



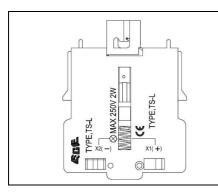
- 1. Fix the operation unit on the panel.
- 2. Connect the operation unit with snap-fit joint part of contact unit.
- 3. Rotate contact unit to fix firmly as shown in the left figure.

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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 (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. 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.14	0L/ COL, IIIE NO. E155161
EN60947-5-1	R50363071
EN60947-5-5 (Emergency Stop Switch)	R50362996
CCC GB14048.5	CQC2016010305912684

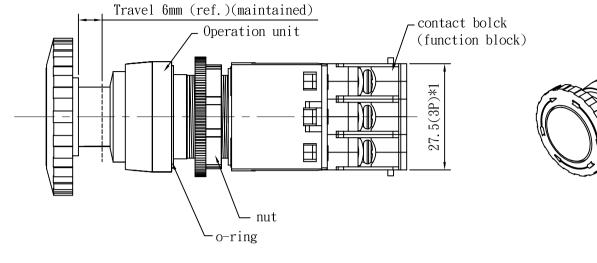
-2. Conta	act Cor	ntigurat	ion	
Code		itact cks	without function block	with function block
	NO	NC		
10	1	0	•	•
01	0	1	•	•
11	1	1	•	•
20	2	0	•	•
02	0	2	•	•
12	1	2	•	•
21	2	1	•	•
30	3	0	•	•
03	0	3	•	•
31	3	1	•	•
13	1	3	•	•
22	2	2	•	•
40	4	0	•	•
04	0	4	•	•
41	4	1	•	
14	1	4	•	
23	2	3	•	
32	3	2	•	
50	5	0	•	
05	0	5		

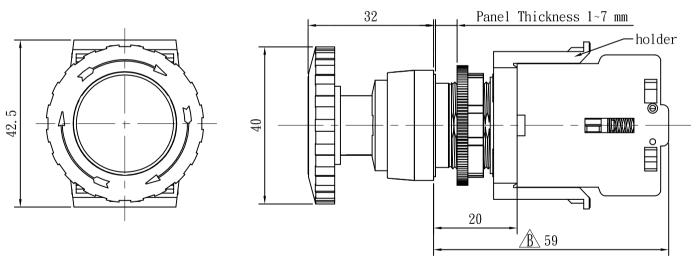
- The colors of contact block are the followings: 1 NO: green, 1 NC: red
- Maximum 5 contact blocks for every contact unit.

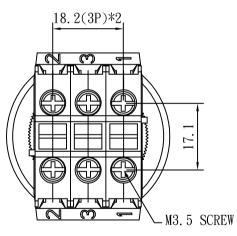
9-3. CAUTION

- 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-22RE1XXX-XXX0





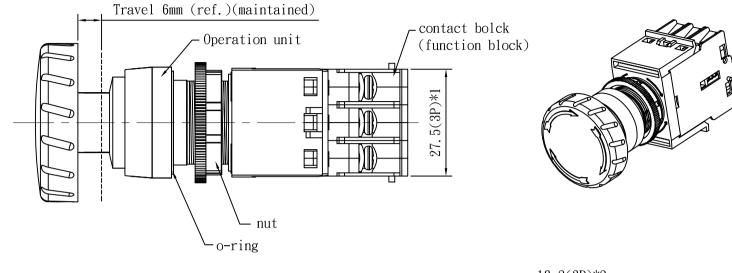


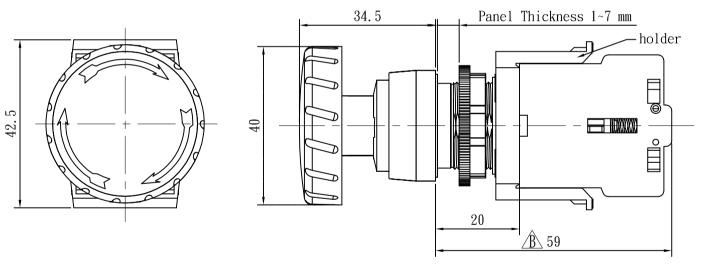
*1:45.8 mm for 5P

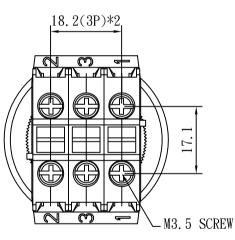
*2:36.4 mm for 5P

				NORMAL 'RANGE 0-1	±0.1	€G £	EXCE	EL CELL I	ELEC	CTRONIC (CO., LTD.	PART NUMBER	ECS-221	RE1XXX-XXX0
				1-4 4-16	<u>±0.3</u> <u>±0.5</u>						UNIT	MM (INCH)	PART NAME	ECS
				16-63 63-250	±0.8 ±1.0	∰ Marcus	DESIGN	Alice	DRAWN	Alice	SCALE	1:1	TYPE	Emergency
Æ	Marking position changes		2018/01/25		±5°	Î Li	IGN	Lin	WN	Lin	SIZE	A4	FILE NAME	76922REXXB. DWG
NO.	DETAILS	ALTERED BY	DATE	X. X	±2.5°						PROJECTION		EDITION	В

ECS-22RE1XM1-XXX0







*1:45.8 mm for 5P

*2:36.4 mm for 5P

				RANGE	BROBE CHEE BELLCTROTTE CO., BID.							PART NUMBER	ECS-221	RE1XM1-XXXO
				0-1 1-4	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			<u> </u>						
				4-16	<u>±</u> 0.5						UNIT	MM (INCH)	PART NAME	ECS
				16-63 63-250	±0.8	Marcu	s DES	Alice	DR.	Alice	SCALE	1:1	TYPE	Emergency
B	Marking position changes	Alice	2018/01/25		±5°	E Li	IGN	Lin	DRAWN	Lin	SIZE	A4	FILE NAME	76922REXXB. DWG
NO.	DETAILS	ALTERED BY	DATE	Х. Х	±2.5°						PROJECTION	$\bigoplus - \Box$	EDITION	В

