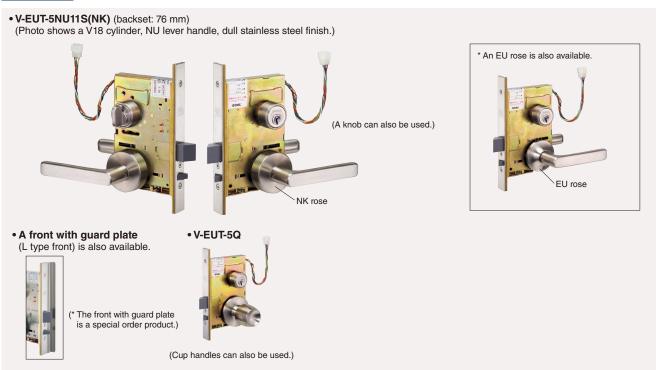


Function-switching electric locks EU series EUT, EUTP (Fail secure, fail secure with anti-panic function) EUR, EURP (Fail safe, fail safe with anti-panic function)

Applications Controlled building entrances, emergency exits, etc.



When installing, it is possible to select fail secure type or fail safe type. The anti-panic function can be added to either side.

Features

- The electric lock function (T type EUT or R type EUR) can be easily changed. (It is changed by means of a switch inside the front.)
- EUT (Fail secure type): The lock is unlocked while it is energized and locks when the supply of power stops. (When the lock is not energized, the door locks automatically when it is closed.)
- EUR (Fail safe type): The lock is locked while it is energized and unlocks when the supply of power stops. (When the lock is energized, the door locks automatically when it is closed.)
- The side where the anti-panic function is added can also be switched. It can be added to either the left or right side of the lock case, allowing the same type to be used for any lock handing.
- * The anti-panic function can be added to the desired side by operating the switch.
- Can be unlocked using the key or thumbturn.
- EUT, EUR: When unlocked using the key or thumbturn, the lock remains unlocked until the lever handle (knob) is operated. Once the lever handle (knob) has been operated, the lock returns to the locked state.

Circuit diagram

Internal circuit diagram (Diagram shows the conditions when the door is opened and unlocked.) Numbers are the connector numbers. SOL ZD Green 1 Brown 8 SW Unlocked Yellow | 9 Locked SOL: Solenoid coil White 4 ZD: Zener diode RSW Blue [5] SW: Microswitch (for checking lock/unlock) RSW: Reed switch (ON when door is closed) **▼** Information

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■ EU function switching method (Can be switched as needed either during or after installation.)

① Remove the lock front.
② Loosen the switch holder plate screw and move the holder plate.



Front

Right side

(Q)

(4)

@

€@AI

4

(

(j)

Selector switch

(Switch holder plate)

Left side

Lock body

Switch holider plate

③ Use a tool to operate the switch.



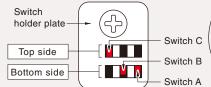
After operating the switch, put the holder plate back in its original position and securely tighten the screw.



(The function selector switch is set at the time of shipping according to the ordered model and model No. Switch the function as needed.

• Relationship of switch position and function

Switch Switch position	Switch C	Switch B	Switch A
Top side	There is an anti-panic function on the left side. (Note)	R type (Fail safe type: EUR)	There is an anti-panic function on the right side. (Note)
Bottom side	No anti-panic function on the left side. (Note)	T type (Fail secure type: EUT)	No anti-panic function on the right side. (Note)



This diagram shows the following conditions.\

- T type (fail secure type)
- Right side (Note): No anti-panic function
- Left side (Note): With anti-panic function

Note: The left side and right side refer to the left and right sides of the lock when viewed from the lock front as shown in the figure at left.

Specifications (Door thickness: ## mm or more~less than ## mm)

			,				
	Operation type (series)	Fail safe type (R type: EUR)	Fail secure type (T type: EUT)				
ations	When equipped with anti-panic function	EURP	EUTP				
fice	Rated voltage	24 V DC (Working voltage range 19 V~27 V DC)					
3C.	Rated current	0.2 A (continuous energizing)					
Electrical specifications	Switch capacity	Microswitch (for checking lo Reed switch (for checking door open/cl Pay particular attention because the ree					
ec	Working temperature range -10~50°C (Must be no freezing or condensation.)						
\Box	Lead wire (with connector)	Length 200 mm (Molex 162	5-09P)				
	Electrical conductors	RCL-27 (Refer to P.72.)					
	Control box	RCB-730, RCB-500 (Refer to P.73.)					
	Backset	76 mm					
cations	Door thicknesses (Contact GOAL for more information.)	Lever (NK rose): 29-33 / 33-38 / 38-43 / 43-48 /48-53 mm (For 29-33 mm, a spacer is required.) Lever (EU rose): 29-33 / 33-38 / 38-43 / 43-48 /48-53 mm Knob: 29-33 / 33-43 / 43-53 mm (However for a P or S type, the minimum is 33 mm.)					
ijji	Gap (door and jamb)	6 mm or less					
ock specifications	Lever handles	NU, KU, TU, and various other types are available. (Refer to P.25~28.) (NK rose and EU rose are available.)					
ГС	Knobs	Q, K, Y, B, S, P types, etc. (Refer to P36.)				
	Cylinder [symbol] (Note)						
	Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV cylinders: Optional key change systems are also available.) (GV: Optional Universal Key System (UKS2) available)					

Thumbturn Standard type only

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

List of EU series models

When ordering, add the cylinder symbol to the model, for example V-EUT-5NU11S.

Compatible cylinders and cylinder symbols	Model (Note 1) (iiiis the cylinder symbol.)	(Inside)	Illustration (Note 2)	(Outside)
	EUR _{-3**}	Thumbturn	-B	
	EUR -3** EUT ⁻³ **	Lever or knob		Lever or knob
GP (GP) V (V18)	FUR	Thumbturn	al lb	Cylinder
GV (GV) P (6-pin) Z (7-pin)	EUR -5**	Lever or knob		Lever or knob
GP (GP) V (V18)	EUR -6**	Cylinder		Cylinder
GV (GV) P (6-pin) Z (7-pin)		Lever or knob		Lever or knob
GP (GP) V (V18)	EUR -7**			Cylinder
GV (GV) P (6-pin) Z (7-pin)		Lever or knob		Lever or knob
GP (GP) V (V18)	EURP			Cylinder
GV (GV) P (6-pin) Z (7-pin)	EURP -7**	Lever or knob		Lever or knob

Note 1: * indicates the lever or knob design and finish symbol. 2: The illustration shows a dimple key for a V18 cylinder.

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Electric dead lock (motor lock) **EMV** series

Applications Apartment building common entrances, office entrances, home entrances, emergency exits, etc.



These electric locks use a motor to operate the deadbolt and lock/unlock the door.

Features

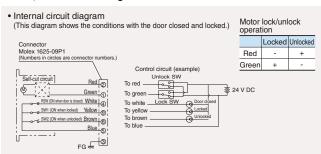
- The lock is locked and unlocked by the action of an electric motor contained within the lock.
- Can also be locked and unlocked using the key or thumbturn.
- Because the lock body is compact, it can be installed even on narrow vertical frames.

Specifications (Door thickness: ## mm or more~less than ## mm)

	Model	EMV(9P connector)			
	Rated voltage	24 V DC (Working voltage range 19 V~27 V DC)			
ions	Rated current	0.2 A (with self-cut function) (The power capacity must be 0.5 A or more.)			
cat		Microswitch (for checking lock/unlock): 24 V DC, 0.1 A			
al specifications	Switch capacity	Reed switch (for checking door open/closed): 24 V DC, 0.1 A (resistance load) Pay particular attention because the reed switch is ON when the door is closed.			
Electrical	Working temperature range	-10~50°C (Must be no freezing or condensation.)			
<u>ec</u>	Lead wire	Length 230 mm			
ш	(with connector)	(Molex 1625-09P)			
	Electrical conductors	RCL-27			
	Control box	RCB-730, RCB-500 (Refer to P.73.)			
2	Backset	38 mm, 51 mm, 64 mm, 76 mm			
specifications	Door thicknesses (Contact GOAL for more information.)	29~43 / 43~53 mm			
ij	Gap (door and jamb) 6 mm or less				
Эес	Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]			
S		Various key systems available (MK, GMK, GGMK, CNK, etc.)			
Lock	Key systems	(V18, GV: Optional key change system available) (GV: Optional Universal Key System (UKS2) available)			

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

EMV, EMVSX circuit diagram



Note: Set the motor energizing time within the range of three to five seconds. The power capacity must be 0.5 A or more

Splash-proof electric dead lock (motor lock) **EMVSX** series

Applications

Apartment building common entrances, emergency exits, home entrances, gates, etc.



These splash-proof specification electric locks use a motor to operate the deadbolt and lock/unlock the door.

Features

- This is an EMV motor lock with splash-proof specifications. It can be used at entrances, gates, and other locations that are exposed to wind and rain.
 - Because the lock case is completely sealed with silicon, it can withstand use in locations that are exposed to wind and rain.
- The backset is 51 mm only.
- Because the cylinders and thumbturns that are used are different from those used in the EMV, the door thicknesses and door notch dimensions are different from the EMV.

Note: Because the cylinder and thumbturn mounting positions are reversed from those in the EMV (cylinder or thumbturn is on bottom and deadbolt is on top), install the strike plate so that the actuator (magnet) is facing down.

Specifications (Door thickness: ## mm or more~less than ## mm)

* El	* Electrical specifications are the same as EMV.				
	Model	EMVSX(9P connector)			
	Backset	51 mm			
specifications	Door thicknesses	GP,V18,GV Cylinder	GP, V, GV-EMVSX-5, 730~43 / 43~53 mm GP, V, GV-EMVSX-630~40 / 40~50 mm		
	(Contact GOAL for more information.)	6-pin, 7-pin Cylinder	P, Z-EMVSX-5 30~45 / 45~55 mm P, Z-EMVSX-6 37~47 / 47~57 mm P, Z-EMVSX-7 30~55 mm		
S	Gap (door and jamb)	6 mm or less			
-ock	Cylinder [symbol] (Note)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]			
	Various key systems available (MK, GMK, GGMK, CNK (V18, GV: Optional key change system available) (GV: Universal Key System not supported)				

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

List of EMV, EMVSX series models

whien ordering,	when ordering, and the cylinder symbol to the model, for example v-⊑wv-5.					
Compatible cylinders and cylinder symbols	Model	(Inside)	Illustration (Illustration shows EMV.)	(Outside)		
	EMV -3	Thumbturn	qQ.			
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	EMV EMVSX -5	Thumbturn		Cylinder		
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	EMV EMVSX ⁻⁶	Cylinder	elib	Cylinder		
GP (GP) V (V18) GV (GV) P (6-pin) Z (7-pin)	EMV EMVSX -7	(In the case of EMVSX, this is a dummy plate.)	. S	Cylinder		

SXEV Electric locks for sliding doors (motor locks) SXESV SXESV series

Applications Apartment building common entrances, office entrances, home entrances, gates, emergency exits, etc.



These electric locks use a motor to operate the deadbolt (hooked deadbolt) and lock/unlock the sliding door.

Features

- The lock is locked and unlocked by the action of an electric motor contained within the lock.
- Splash-proof SXESV is also available. (The thumbturn is the standard type only.)

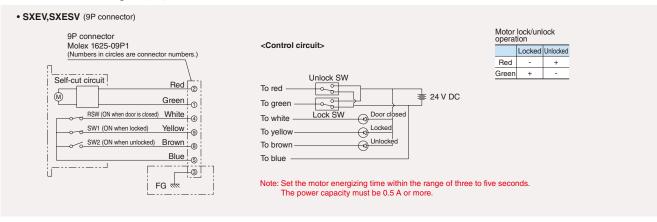
Specifications (Door thickness: ## mm or more~less than ## mm)

	Model		SXEV, SXESV (Splash-proof) (9P connector)				
2	Rated voltage		24 V DC (Working voltage range 19 V~27 V DC)				
Ę.	Rated current		0.2 A (with self-cut function)				
Sat	riatou curront		(The power capacity must be 0.5 A or more.)				
ij			Microswitch (for checking lock/unlock): 24 V DC, 0.1 A				
Electrical specifications	Switch capacity	/	Microswitch (for checking door open/closed): 24 V DC, 0.1 A (Pay particular attention because the microswitch is ON when the door is closed.)				
.E.	Working temperature ra	nna	-10~50°C (Must be no freezing or condensation.)				
Sct	Lead wire	iliye	Length 230 mm				
ä			(Molex 1625-09P)				
	(with connector)		,				
	Control box		RCB-730, 500 series (Refer to P.73.)				
	Backset	-	51 mm				
		SXEV	GP,V,GV,P,Z-3,5,6,7 29~43 / 43~53 mm				
(0	Door thicknesses	25	GP,V,GV-5,7				
cations	(Contact GOAL for more information.)	SXESV	P, Z-5 30~45 / 45~55 mm P, Z-730~55 mm P,Z-6				
ij	Gap (door and jamb)		5 mm or less				
96	Cylinder [symbol] (Note)		GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]				
Lock specifications	Key systems		Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV cylinders: Optional key change system available) (GV: Optional Universal Key System (UKS2) available) (Note: Universal Key System for splash-proof type SXESV is not supported.)				
	Thumbturn		SXEVStandard type, TM, TME, other types SXESVStandard type only				
	Model No.		SXEV-3, 5, 6, 7 SXESV (splash-proof type)-5, 6, 7				

Note: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

opeomoutions (boot thickness. ## fillif of more-less than ## fillif)

SXEV, SXESV circuit diagram (Note)



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Concealed type electrical conductors RCL-21, 27 series

Applications Used for wiring that is connected to electric locks and other products installed on doors.



Concealed type electrical conductors that the leads are not exposed when door is closed.

Specifications

■ RCL series concealed type electrical conductor specifications and types of electric locks used

Note: Because the door side cable length is 100 mm, use an extension cord when necessary.

Model Number of lead wires		Cable length (mm)		Front	Connector	Lead wire	Electric lock used
		Door side	Frame side	Lock case	Connector	(heat-resistant wire)	Liectific lock asea
DCI 01	201.04		150	Stainless steel			
RCL-21	CL-21 6	6 2,000	00 150	Steel plate	Molex	UL-2586	ELSF, ELM lever handle-type electric locks
DOL 0411	(Note		450	Stainless steel	1625-06P,R	SP,R AWG24 (11/0.16)	ESSF, ESM mortise lock-type electric locks
RCL-21U	6	100	150	ABS plastic		(,	
DCL 07	_	7 0.000	2.000 150	Stainless steel	Molex	UL-2586 AWG24 • EMV, EMVSX electric dead motor lock (Refer	EMV, EMVSX electric dead motor lock (Refer to P.70.)
RCL-27 7		7 2,000		Steel plate	1625-09P,R	(11/0.16)	• EU series function-switching electric locks (Refer to P.67,68.)

RCB-500 Electric lock control boxes **RCB-500** series

Applications Control of electric locks

• RCB-505 (for 5 lines)



 Operation panel **RSP-410U**

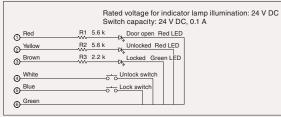


RSP-410UH

(With unlock hold function)



■ Circuit diagram



- 1. This product uses indoor specifications. Do not use it in locations that are exposed to contact with rainwater.

 2. When used with an interlock door system, there is no operation button or indicator
- lamp. The size is the RCB-505 size.

Specifications

Model	RCB-501~RCB-515 (The last 2 digits of the model number are the number of lines.)
Number of lines that can be used	1~15 lines (Each line can control a different electric lock.)
Compatible electric locks	ELSF, ELM series lever handle-type electric locks (Refer to P.69.) EMV, SXEV series motor locks (Refer to P.70.) EU series function-switching electric locks (Refer to P.67,68.) ESSF, ESM series mortise lock-type electric locks (Refer to P.69.)
Input voltage, rated output voltage	100 V AC (50/60 Hz), 24 V DC
Power consumption	Varies depending on the type of electric locks used and the number of lines.
Standard external dimensions (mm)	RCB-501~RCB-505: Width 400 × Height 300 × Thickness 120 RCB-506~RCB-510: Width 400 × Height 550 × Thickness 120 RCB-511~RCB-515: Width 400 × Height 800 × Thickness 120
Standard finish	Baked coating (Munsell 2.5Y-9/1 semi-gloss)
External input	Operation panel RSP-410U, etc. (Maximum 3 can be connected per line.)
Special function (symbol) (options)	24-hour timer (A) Weekly timer (B) Interlock control function (H) Spare power supply function (F) Forced unlock of one electric lock one time only in the event of a power outage (L) (Motor locks, instantaneous flow of current types) Various other functions are available.

RCB-730 Electric lock controllers

Applications Control of electric locks



Operation panel

RSP-410U



RSP-410UH

(With unlock hold function)



Precautions: This product uses indoor specifications. Do not use it in locations that are exposed to contact with rainwater.

Specifications

Model	RCB-730
Input voltage	100 V AC (50/60 Hz)
Power consumption	10 VA (maximum)
Rated output voltage	24 V DC
Working temperature range	-10~+40°C (Must be no freezing or condensation.)
Compatible electric locks	ELSF, ELM series lever handle-type electric locks (Refer to P.69.) EMV, SXEV series motor locks (Refer to P.70,71.) EU series function-switching electric locks (Refer to P.67,68.) ESSF, ESM series mortise lock-type electric locks (Refer to P.69.)
External input	Can connect to RSP-410U, 410UH operation panels (maximum 4). Unlock can be held by non-voltage a contact input.

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