EB-2501 SERIES ELECTRIC BOLT LOCKS



Features & Functions

- Whole alloy housing
- Failsafe-Dual 12V/24V DC standard (self-regulating by 4-pin jumper)
- Bicolor indicators
- Auto-relocking timer setting: 0,3,6,9 sec. for door locking time delay self-regulating by 2-pin dip-switch
- Built-in exit switch input to unlock (If connected with latch type of exit switch, the bolt lock will be as N.O. without activated till switch off.)

Additional Functions (See "Order Information")

- Auto-detective logical MCU
- Lock status sensor output (LSS): Indicates locked or unlocked bolt status (COM, NO, NC)
- Door position status output (DSS): Indicates door opened or closed position (COM, NO, NC)
- Warning buzzer: Indicates error status or forced entry. (BUZZER)

Capability to extend the bicolor indicator by external indicators about
50cm

Dimension



Bolt	Ø15.8 mm	Bolt Depth	16mm (5/8")	Lock Body	150L×25.4W×33D mm
Cover(Eaves)	200L×32W×1.5T mm	Face plate	193L×25.4W×2T mm	Striker plate	102.55L×25.4W×2T mm
Decorative plate	210L×44W×0.5T mm (Attached)			

Specifications

Item		Contents		Remarks	
Power Input and Tolerance		12VDC	24VDC	Stable PSU recommended	
Current Droug	Pull in	0.98A	0.55A	Changeable by power input and higher outer temp.	
Current Draw	Holding	0.24A 0.14A		Changeable by power input and higher outer temp.	
Surface Temperature		< 40 °C		Room Temp. 25 °C	
DSS		Max.3W; Max.30VDC;Max.0.2A		COM,NO,NC	
LSS		Max.30VDC;Max1A		COM,NO,NC	

Order Information

	Features & Functions				Additional Functions					
M/NO.	Power	Remote	Time	Bicolor	Auto-detective	155	DSS	Warning	Connect	
	Input	Release	delay	indicators	logical	LSS	D22	buzzer	Bicolor	
EB-2501M\LDAC	12/24VDC	0	0	0	0	0	0	0	0	
EB-2501M\LDA	12/24VDC	0	0	0	0	0	0	0	×	
EB-2501M\LD	12/24VDC	0	0	0	0	0	0	×	×	
EB-2501U	12/24VDC	0	0	0	×	×	×	×	×	
EB-2501U\D	12/24VDC	0	0	0	×	×	0	×	×	

(×) Without this function

ELECTRIC BOLT LOCKS EB-2501 SERIES INSTALLATION INSTRUCTION

I. Order Information

	Features & Functions				Additional Functions				
M/NO.	Power	Remote	Time	Bicolor	Auto-detective	221	DSS	Warning	Connect
	Input	Release	delay	indicators	logical	L33		buzzer	Bicolor
EB-2501M\LDAC	12/24VDC	0	0	0	0	0	0	0	0
EB-2501M\LDA	12/24VDC	0	0	0	0	0	0	0	×
EB-2501M\LD	12/24VDC	0	0	0	0	0	0	×	×
EB-2501U	12/24VDC	0	0	0	×	×	×	×	×
EB-2501U\D	12/24VDC	Ó	0	Ó	×	×	Ó	×	×

II. Features & Functions

- A. Whole alloy housing
- B. Failsafe Dual 12V/24V DC standard (self-regulating by 4-pin jumper)
- C. Bicolor indicators
- D. Auto-relocking timer setting: 0, 3, 6, 9 sec. for door locking time delay self-regulating by 2-pin dip-switch.
- E. Built-in exit switch input to unlock
- (If connected with latch type of exit switch, the bolt lock will be as N.O. without activated till switch off.)

III. Additional Functions (See "I. Order Information")

- 1. Auto-detective logical MCU
- 2. Lock status sensor output (LSS): Indicates locked or unlocked bolt status (COM, NO, NC)
- 3. Door position status output (DSS): Indicates door opened or closed position (COM, NO, NC)
- 4. Warning buzzer: Indicates error status or forced entry. (BUZZER)
- 5. Capability to extend the bicolor indicator by external indicators about 50cm

IV. Specifications

Item		Contents		Remarks		
Power Input and Tolerance		12VDC	24VDC	Stable PSU recommended		
Current Drow	Pull in	0.98A	0.55A	Changeable by power input and higher outer temp.		
Current Diaw	Holding	0.24A	0.15A	Changeable by power input and higher outer temp.		
Surface Temperature		< 40 °C		Room Temp. 25 °C		
DSS		Max.3W; Max.30VDC;Max.0.2A		COM,NO,NC		
LSS		Max.30VDC;Max1A		COM,NO,NC		

V. Contents









MTG.TAB x4

Screws x8



VI. Wiring diagram

WIRING DIAGRAM	V+ (+12/+24VDC)	Red (22AWG)	
	V- (GND)	Black (22AWG)	
$\square \square \square \square$ Red : V + $\square \square$ Power input	Evit Quvitab	One close to Black (22AWG)	
	EXIL SWILCH	One close to Brown (26AWG)	
Brown : Exit switch	nee	COM-White (26AWG)	,
White : COM	(Door Status Sansar)	NO-Orange (26AWG) Door Closed	
\rightarrow Orange : No (Door Closed) \rightarrow Max		NC-Yellow (26AWG) Door Open	
\rightarrow Yellow : NC (Door Open) \rightarrow 0.2A	1991	COM-White (26AWG)	
\square Green : No (Bolt locked) \square Max	/Lock Status Sonsor)	NO-Green (26AWG) Bolt locked	
\square Blue : NC (Bolt unlock) \square 1.0A	(LUCK Status Selisor)	NC-Blue (26AWG) Bolt unlock	

X Caution : Please make sure the "+" and "-" wires are connected well and correctly before you apply a power source to the lock; Warning, Reverse polarity will make a short circuit and void products warranty.

VII. Power input setting

- A. 12VDC input setting :
- Jumper setting as shown on below: PIN-1 and PIN-2 closed PIN-3 and PIN-4 closed
- B. 24VDC input setting :
- Jumper setting as shown on below:
- PIN-2 and PIN-3 closed

% Caution : Please DO NOT connect the incorrect voltage to lock; otherwise, this will void products warranty.

123

Û

1234

VIII. Auto relocking timer setting

• 4 sets of timer-0, 3, 6, 9 sec. - set up by 2-pin dip-switch and apply for following situations.





• setting up the auto relocking timer: (Default Value: 0 sec.)

None

2 beeps per seconds

1 beep per second for 10 seconds

Keeps beeping for 30 seconds

1 beep every 2 seconds for 30 seconds

^ .	. Indicators-LED and DOZZEN identification as following chart.								
	Indicators	LED	BUZZER						
	Waiting for locking	Red LED lights up	None						
	Door locking time delay	Green LED flashes once per second	None						

Green LED flashes once every two seconds

Red LED flashes once per second for 10 seconds Red LED flashes once every two seconds for 30 seconds

Red LED flashes once per second

X. Indicators-LED and BUZZER identification as following chart:

	Remote Release(Exit Switch)	Red LED flashes once per second for 3 seconds	1 beep per second
Х.	System functions : B including bolt fixed positior (exit switch). (*)-See "I. O	y logical program systems to control the bolt lock; It h , door locking time delay, locked well and forced entr rder Information"	has auto-detective functions y(alarm)and remote release

Green and Red LED's flash alternately every 0.5 sec. for 30 seconds

- 1. Standby (Power on the system when door is open): If you close the door, the system will receive an induction and the time delay (0/3/6/9 sec.) will start to count, and then the auto-detective function will execute the following movements:-
 - However, the period of time delay, if door is opened, the bolt will automatically retract and the systems will return to standby.
 - After a time delay (0/3/6/9 sec.), if door is closed, the bolt will automatically extend into the "Detecting lock" and may execute the following functions.
 - After "Detecting lock" (or system received an induction of "Locked well"-(*)), the bolt will enter into an economical mode of electricity and locking will hold.
- (*) After "Detecting lock", if the bolt is out and not in the right position-"Fail to lock", the bolt will automatically retract in 10 seconds. Meanwhile, the users can see bicolor indicators or listen to the "warning buzzer" and push the door in the right position, the bolt will automatically extend into an economical mode of electricity and locking will hold.
- (*) In "Fail to lock", after 10 seconds, the bolt will enter into "Keeping locking" mode and re-lock every 30 seconds, The users can see bicolor indicators or listen to the "warning buzzer", users must open the door and then closed it again in the right position, the bolt will automatically extend into an economical mode of electricity and locking will hold.

Detecting lock

Keeping locking

Forced entry (Alarm)

Locked well

Fail to lock

- 2. Unlock (In locking, push the exit-switch) "Remote Release": The bolt will automatically retract, after 3 seconds, if the door is closed, the time delay (0/3/6/9 sec.) will reset and count and execute the following functions.
- (*)3. Forced entry (Alarm): Indicates an error status or forced entry, the system can increase the thrust of the bolt and an alarm bell given (30 seconds).



C. Dimension

Bolt	Ø15.8 mm	Bolt Depth	16mm (5/8")	Lock Body	150L × 25.4W × 33D mm		
Cover(Eaves)	200L × 32W × 1.5T mm	Face plate	193L × 25.4W × 2T mm	Striker plate	102.55L × 25.4W × 2T mm		
Decorative plate 210L × 44W × 0.5T mm (Attached)							



D. Installation Diagram

