



HH5800/F SERIES

PRODUCT INSTRUCTION MANUAL



HIGH QUALITY LOCKING DEVICE PROVIDER

Copyright © 2026 Shanghai One Top Corporation. All rights reserved. www.onetoplock.com



HH5800/F SERIES

The HH5800/F series (single standard) and HH5800D/F series (double standard) electromagnetic locks are eco-friendly, UL 3-hour fire-rated units with a high holding force exceeding 682kg. They feature auto voltage sensing for 12VDC or 24VDC and a relock time delay adjustable from 0 to 110 seconds. An optional Door Status Sensor is available in the DSS version.

HH5800/F SERIES

MODEL	LED DISPLAY	LOCK SENSOR	DOOR SENSOR	DELAY RELOCK
HH5800U/F / HH5800DU/F	V	—	—	V
HH5800U DSS/F / HH5800DU DSS/F	V	—	V	V
HH5800/F / HH5800D/F	V	V	—	V
HH5800 DSS/F / HH5800D DSS/F	V	V	V	V

LED INDICATORS

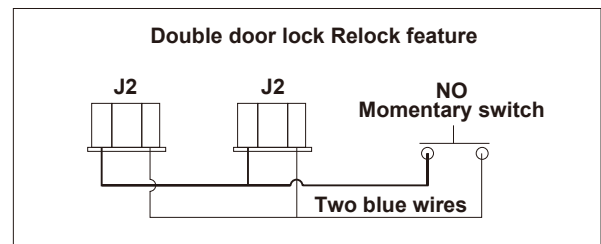
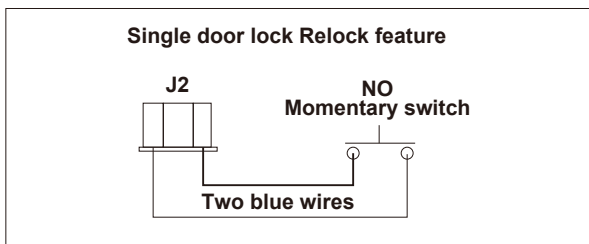
SYSTEM STATUS	GREEN LIGHT	RED LIGHT	RELAY
POWER OFF	OFF	OFF	De-Energized
POWER ON-DOOR OPEN	OFF	ON	De-Energized
POWER ON-DOOR LOCKED	ON	OFF	Energized

The Relay Contacts are rated at 24 VDC, 1.25 A maximum.

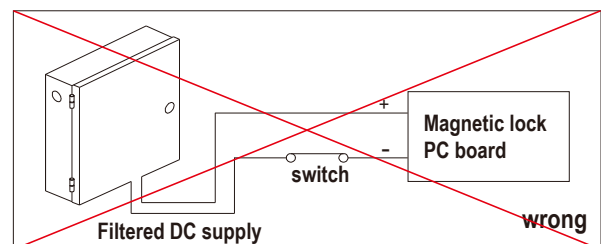
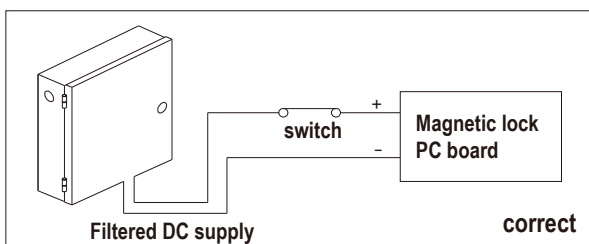
DSS reed switch are magnetically actuated SPDT switch contact rated for 12 VDC, at 0.2 A maximum and for 24 VDC, 0.12 A maximum.

DELAY RELOCK CONNECTION

Short the Blue-Blue wire or wired on to a NO switch.



SWITCHING DEVICE CONNECTION TO ENSURE INSTANT RELEASE



ELECTRICAL DATA

POWER INPUT	HH5800/F	HH5800 DSS/F	HH5800D/F	HH5800D DSS/F
12VDC	0.66A	0.68A	0.66A X 2	0.68A X 2
24VDC	0.33A	0.34A	0.33A X 2	0.34A X 2

For HH5800D/F series there are two electromagnetic lock on the double door, so current is double.

HH5800/F SERIES TROUBLE SHOOTING GUIDE

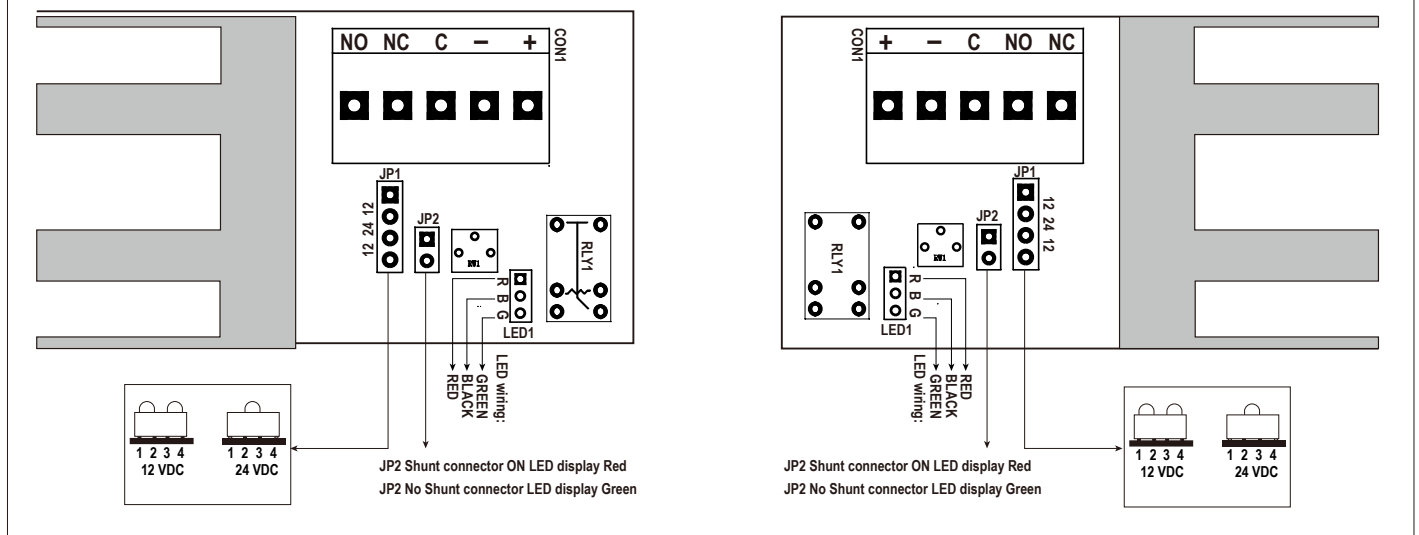
PROBLEM	POSSIBLE CAUSE	SOLUTION
Cannot remove mounting plate for installation	Two anti -tamper M4x18.5 screws blocks the entry of the allen key tool	Remove the two anti -tamper M4x18.5 screw on cover plate and ends block
Door will not lock	No DC voltage to lock	Check power and wiring
	Loose wire	Check terminals connection
	Wrong wiring	Check wirings connection
Reduced holding force	Bad physical contact between armature plate and face of magnet	Ensure mating surfaces are clean and in proper mating alignment and the armature plate align freely
	Low voltage	Check magnetic lock for low voltage or wrong voltage setting
Delay in door release	Circuit switch connection is on the wrong negative line -Vdc	Circuit switch connection should be done on the +Vdc line. See instruction for switching device connection
	Secondary diode installed across magnetic lock	Remove this diode. PCBA has voltage protection
Lock does not lock instantly	Delay setting	Turn potentiometer anti-clockwise to decrease delay relock time setting
LED status is incorrect	Misalignment of armature plate	Check alignment of armature plate
	Hall effect switch position incorrectly inside magnetic block	Reposition Hall effect switch, contact manufacturer for instruction

HH5800DSS/F SERIES WIRING

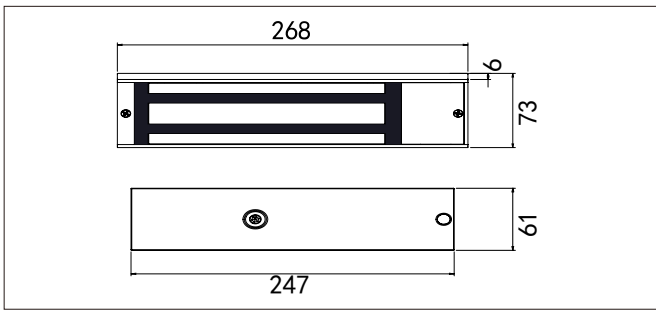
Short-circuits terminal pin, the electromagnet will be de-energized Delay relocks on 0-110 seconds

DSS WIRING: BLACK, RED, GREEN (C, NC, NO)

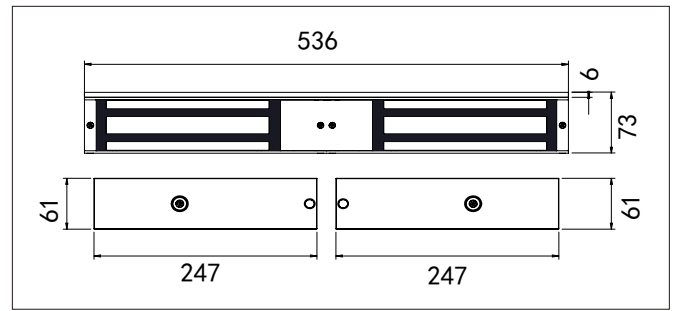
DSS contact rating: 12 VDC 0.2 A max. 24 VDC 0.12 A max



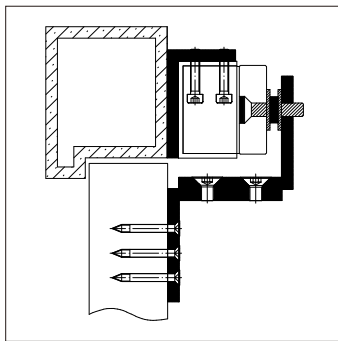
HH5800DSS/F SERIES



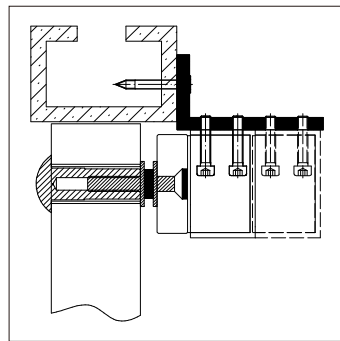
HH5800D DSS/F SERIES



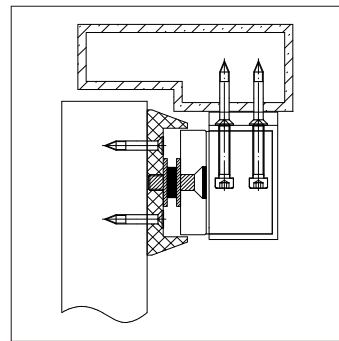
BRACKET INSTRUCTION



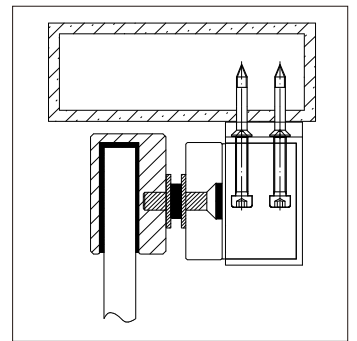
LZ



ATB

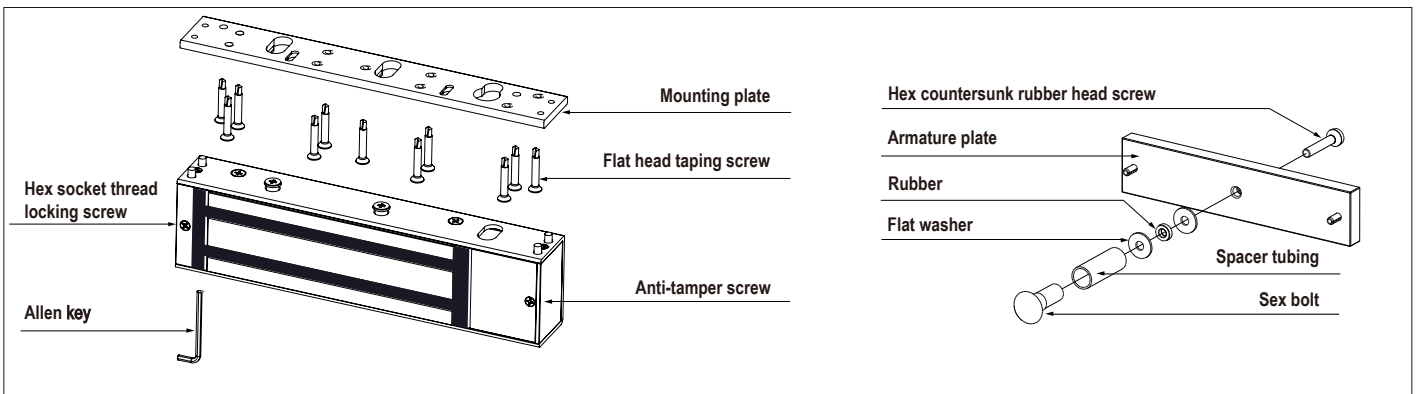


CHB



UBG

INSTALLATION DIAGRAM



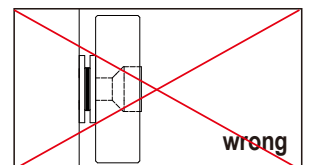
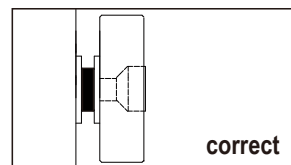
IMPORTANT SAFETY INSTRUCTION

Secure the magnetic lock body firmly on the door frame.

Our electromagnetic lock are shock resistant to unlimited door closures, so it is vital to periodically check if the electromagnetic lock is secure firmly on the top door header to prevent it from falling and causing possible injury.

Do not tighten the armature plate tight against the door.

The armature plate must remained movable to allow surface alignment with the magnet face. The magnetic lock will lose holding force without this floating alignment.



Do not remove the glued rubber head washer on the hex bolt. Trimming this rubber will adversely affect the operation of magnetic lock.

