



# EM5700/EM5700 DSS

## Light Panel Electromagnetic Lock



v.1.3  
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## Introduction

Light Panel Electromagnetic Lock; EM5700 series is an innovative Fail Safe locking device designed for both corridor and **entrance doors** where safety is of paramount importance. Its unique feature of L-angle Light Panel makes the product much easier for status observation especially for night time patrol. With the Light Panel feature, EM5700 series has a much modernized appearance compare to all the other Electromagnetic Locks in the industry. EM5700 series has a holding force up to 550kgs, Lock Status Sensor (LSS), built-in varistor (MOV) surge protection, and a high resistance to corrosion. With EM5700DSS model, it has an additional monitoring feature of Door Status Sensor (DSS).

## Specification

SPECIFICATION	EM5700/EM5700D/EM5700 DSS/EM5700D DSS
Illustration	   <p>Double and Single Light Panel EM5700 Locks</p>
Certifications	   <p>BS EN1634-1:2014 Fire rated 4 hours EN 1634-1:2014 Fire rated 4 hours BS 476-22:1987 Fire rated 4 hours</p>
Fail Safe	Power to lock
Lock Body Dimension	EM5700/EM5700DSS - 268L x 73W x 41H (mm) EM5700D/EM5700D DSS - 536L x 73W x 41H (mm)
Armature Plate Dimension	EM5700 DSS - 252L x 61W x 16H (mm) EM5700D DSS - x 2pcs EM5700 - 190L x 61W x 16H (mm) EM5700D - x 2pcs
Lock Operating Voltage	12/24VDC ±10%
Lock Operating Current	510mA/12VDC; 270mA/24VDC
Lock Holding Force	Up to 550kgs (1,200lbs)
Weight	EM5700/EM5700 DSS – 4.9kgs EM5700D/EM5700D DSS – 9.8kgs
Output Signals	<b>Lock Status Output</b> (LSS) NO/NC/COM, Max 24VDC; Max 2A <b>Door Status Output</b> (DSS) NO/COM(for EM5700 DSS/EM5700D DSS models only);Max 30VDC; Max 0.2A





Operating Temp	-10°C ~60°C
Operating Humidity	0~80% (non-condensing)
Light Panel	Red/Green/Off indicating the status Insecure/Secure/Power Off the magnetic lock
Surface Finish	High quality plating for anti-corrosion
Residual Magnetism	No residual magnetism. No Spring Rebound Mechanism on the armature plate is required to overcome the residual magnetism
Standard Packing	EM5700/EM5700DSS - 4pcs/carton EM5700D/EM5700D DSS - 2pcs/carton

## Fire Alarm Condition

EM5700 series is designed for fail safe operation. In the event of fire, the main power of the building can be cut off by fire alarm control panel to immediately release locked exit doors with EM5700 series lock.

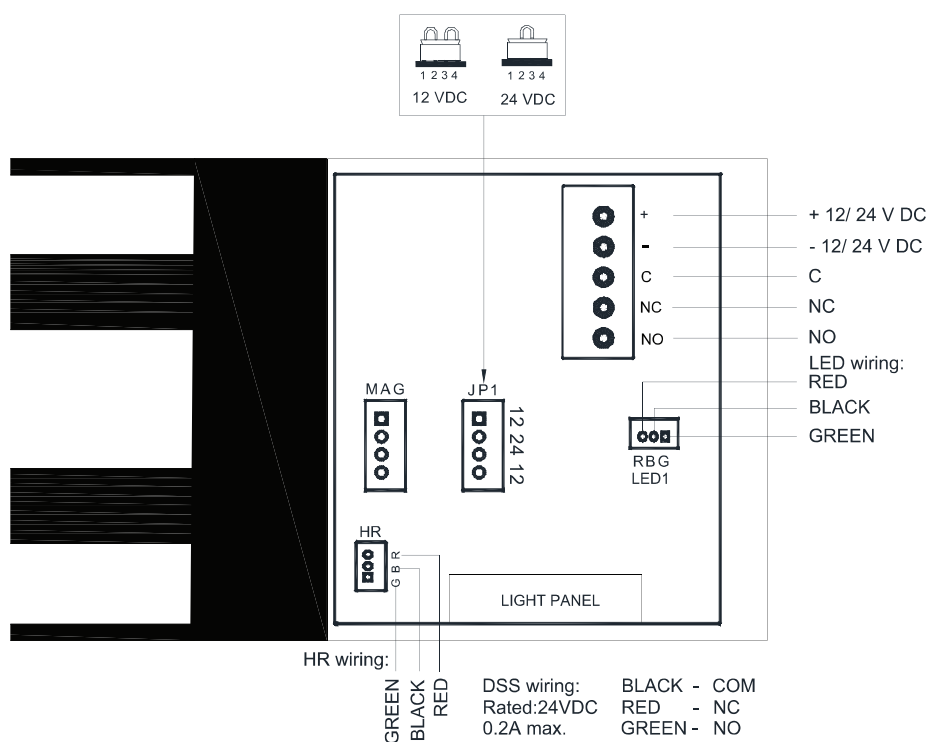




## Wiring and Voltage Setting

TERMINAL	DESCRIPTIONS
Wiring	12/24Vdc Power Input, 2 wires
	LSS Output, NO/NC/COM, 3 wires
	DSS Output, NO/COM – 2 wires, Blue/Blue

Refer to the figure below for wiring installation of EM5700DSS



Graphic illustration of wiring for EM5700DSS series





## EM5700Series Models and Accessories

EM5700 SERIES	MODEL NUMBER	DESCRIPTION
Models	EM5700	EM5700 with Built-in Light Panel, and LSS monitoring
	EM5700DSS	EM5700 equipped with DSS monitoring (Full Monitoring)
	EM5700D	EM5700 double version
	EM5700D DSS	EM5700DSS double version
Brackets	L&Z 5700	L&Z Bracket for In-swing door installation
	L&Z 5700D	Double Door Mag L&Z Bracket for In-swing door installation
	ATB 5700	Adjustable Bracket for narrow door frame installation
	CHA	Armature Plate Holder, is used when impossible to drill through holes on door to fix the Armature Plate
	UBG12L	Aluminium U-shaped Bracket for glass door installation; door gap has to be > 3mm

