



# EM3500/EM3500 DSS

## Light Panel Electromagnetic Lock



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# Introduction

Light Panel Electromagnetic Lock; EM3500 series is a newly innovative Fail Safe locking device designed for both **Fire Door** and **Exit Door** where safety is of paramount importance. Its unique feature of L-angle LED (Light Panel) makes the product much easier for status observation especially for night time patrol. With the Light Panel feature, EM3500 series has a much modernized appearance compare to all the other Electromagnetic Locks in the industry. EM3500 series has a holding force up to 250kgs, Lock Status Sensor (LSS) monitoring, built-in varistor (MOV) surge protection, and a high resistance to corrosion. With EM3500 DSS/ EM3500D DSS model, it has an additional monitoring feature of Door Status Sensor (DSS).

# Specification

SPECIFICATION	EM3500/EM3500D/EM3500 DSS/EM3500D DSS
Illustration	   <p>Double and Single Light Panel EML</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	EM3500/EM3500 DSS- 238L x 48W x 26.5H (mm) EM3500D/EM3500D DSS- 477L x 48W x 26.5H (mm)
Armature Plate Dimension	EM3500/EM3500DSS - 185L x 38W x 12H (mm) EM3500D/EM3500D DSS - x 2pcs
Lock Operating Voltage	12/24VDC ±10%
Lock Operating Current	510mA/12VDC; 270mA/24VDC
Lock Holding Force	Up to 250kgs
Weight	EM3500/EM3500DSS - 2.0kgs EM3500D/EM3500D DSS - 4.0kgs
Output Signals	Lock Status Output (LSS) NO/NC/COM; Max 24VDC; Max 2A Door Status Output (DSS) NO/COM (for EM3500DSS/ EM3500D 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	EM3500/EM3500DSS - 10pcs/carton EM3500D/EM3500D DSS - 6pcs/carton

## Advantage Table

MODEL	EM3500/EM3500D/EM3500DSS/EM3500D DSS	
Installation		
	EM3500/EM3500DSS installation	EM3500D/EM3500D DSS installation
Monitoring Signal	For EM3500DSS and EM3500D DSS only: Built in Door Status Sensor No external magnetic sensor is required.	
Light Panel (LP)	Modernized Appearance Easy observation on Locked and Unlocked status.	

## Fire Alarm Condition

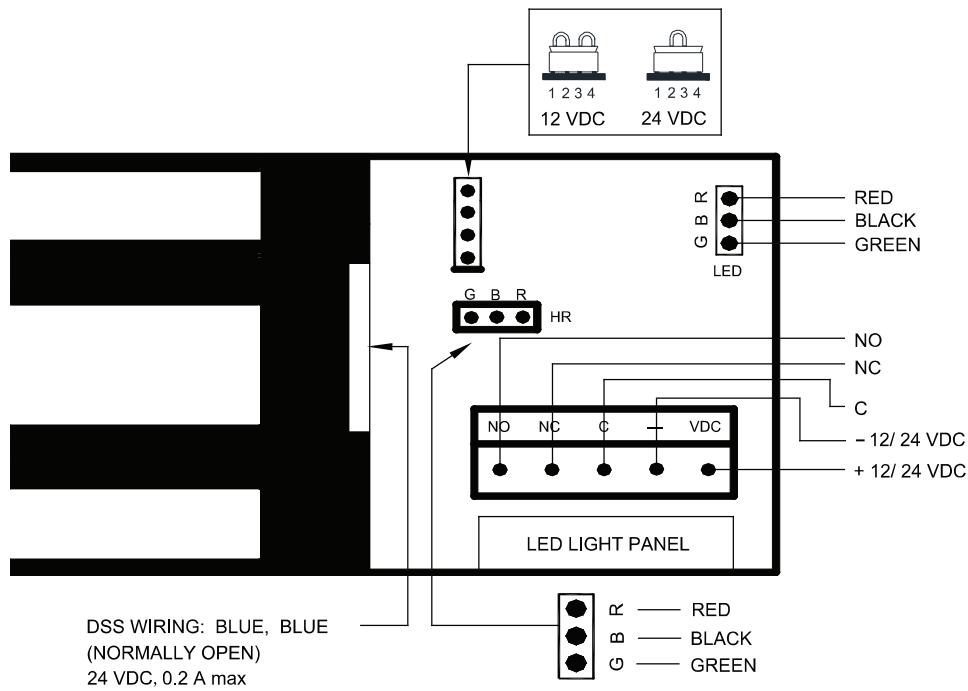
EM3500 series is designed for fail safe operation. In the event of fire, the main power of the building can be cut off by fire alarm control panel to immediately release locked exit doors with EM3500 series lock.





## Wiring and Voltage Setting

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



Graphic illustration of wiring for EM3500DSS series





## EM3500 Series Models and Accessories

EM3500 SERIES	MODEL NUMBER	DESCRIPTION
Models	EM3500	EM3500 with Built-in Light Panel, and LSS monitoring
	EM3500DSS	EM3500 equipped with DSS monitoring (Full Monitoring)
	EM3500D	EM3500 double version
	EM3500D DSS	EM3500DSS double version
Brackets	L&Z 3500	L&Z Bracket for In-swing door installation
	L&Z 3500D	Double Door Mag L&Z Bracket for In-swing door installation
	ATB 3500	Adjustable Bracket for narrow door frame installation
	CHB	Armature Plate Holder, is used when impossible to drill through holes on door to fix the Armature Plate
	UBG12M	Aluminium U-shaped Bracket for glass door installation; door gap has to be > 3mm

