



Dorma EM 7500-D AM Shear Lock Troubleshooting

Troubleshooting the Dorma EM 7500-D AM on site.



Control box goes back into the box and the other parts go into the door leaf.

Items include:

- LED
- PCB/Regulator
- Magnet
- Armature
- Fixing Pack
- Instructions

Magnet not engaging with armature plate?

Check all wiring, the magnet must be wired as follows directly to the supplied PCB, this regulates the current, and the maglock must not be wired directly as this causes overload and can burn out the magnet.

Red – Power

Black – Power

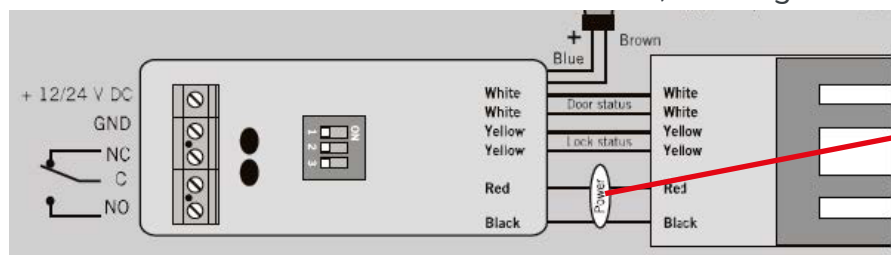
Yellow x 2 – Lock Status (No Polarity)

White x 2 – Door Status (No Polarity)

Blue/Brown are **optional** for the LED (Shows Lock Status Engaged/ON)

Important Information

All wires being connected will need to be snipped back and cleaned off properly. This will help towards a clean connection. If this is not done, the magnet may not work.

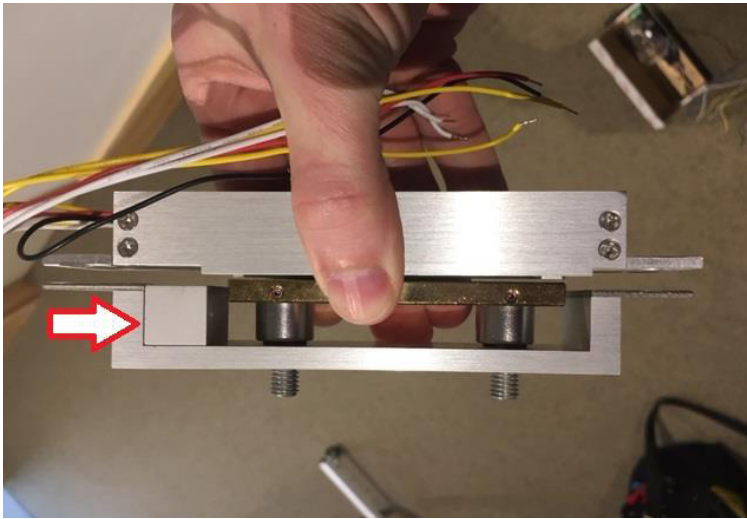


Live Power
Both red and black are power lines.

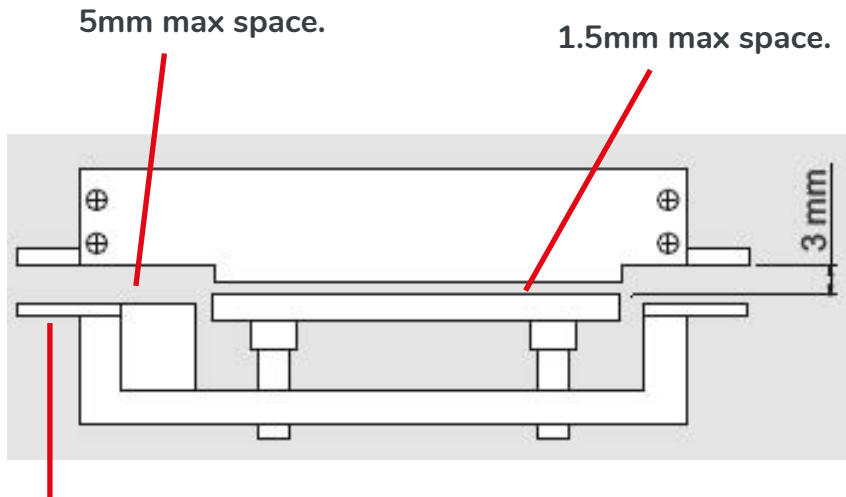
Check source input of power, this can be either 12V or 24V DC (+/-10%)

Power and wiring correct but magnet still not engaging?

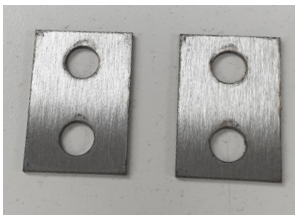
It is vital for the unit to have a maximum 3mm of space between the Magnet and the Armature reed switch (an electrical switch operated by a magnetic field).



The arrow shows the reed switch location on the plate.



After mounting, adjust the screws to make sure the gap is 3mm.



Packing plates.
To help achieve the 3mm gap you can use the packing plates supplied in the fitting kit. The plates are fitted under the none wired bracket but only if necessary.

Power to magnet, but engaging too fast (power to magnet before door closes)?

This can be controlled by the PCB, where you have 3 micro switches for delay time adjustments. When testing you should be ok with switching it to 1 second (switch 1 only).

Delay time adjustment
Temporisation before locking when the door is closed.
Adjustment between 0 and 6 seconds, using mini-dip.

	DIP "ON"	None	1	2	3	1+3	2+3	1+2+3
	Delay (sec.)	0	1	2	3	4	5	6