The FB-4 provides four (4) individually fused outputs for modular system protection. A 2 amp fuse is supplied for each of the 4 fused outputs. Determine the load requirement for each output and change the fuse with a different rating as needed. The output voltage supplied to each output is the same as the voltage input. The total current required for all of the outputs must not exceed the power supply output current rating.

The FB4DC includes an integrated full wave bridge rectifier to allow the use of an AC transformer or a DC power supply to provide a DC output voltage.
The CR4 module operates on 12V or 24V DC and provides control of four (4) stations. Each CR4 station accepts a Dry (NO) trigger input and provides one (1) Fused 2 Amp SPDT Output (jumper selectable Wet or Dry) and one (1) Non-fused Dry (2 Amp) SPDT output (jumper selectable Wet or Dry). Closing a switch across the Dry Trigger Input for Station A, B, C or D will release the output for the amount of time that the trigger input is held closed. The CR4 module can be used to indicate status or implement multiple door interlocks.
**CR  CONTROL RELAY MODULE**
1. Select wet or dry trigger input.
2. Wet trigger input must be the same as output voltage, AC or DC.
3. N/O trigger inputs shown. When using N/C trigger inputs, outputs are reversed.

**TD  TIME DELAY RELAY MODULE**
1. Wet and dry trigger input may be used.
2. Wet trigger input may be 12V or 24V AC or DC.
3. Normally off wet trigger input shown. When using normally on trigger input, outputs are reversed.
4. Reset; adding door position switch resets timer to assure immediate relocking when door closes to guard against unauthorized entry of following pedestrian.

**LR  LATCHING RELAY MODULE**
1. Momentarily activating the Latch input activates and latches the lock output.
2. Momentarily activating the Release input releases the lock output.
Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdcsecurity.com

**POWER BOOSTER MODULES**

1. Dry trigger input only
2. Both outputs are fail secure

**PB-8**

Power Booster for High Inrush Electric Panic Devices and Locks

1 Amp continuous @ 24 VDC, 8 Amp surge output.

**PB-16**

Power Booster for High Inrush Electric Panic Devices and Locks

a Amp continuous @ 24 VDC, 16 Amp surge output.
The SDC ACM-1 Access Control Module is an installer friendly interface relay board designed to release a magnetic locking device or electric strike, to provide a lock status output and to provide easy to use multiple wiring terminals for additional access control REX (Request to Exit) inputs.

**Operation**

When any REX input is activated, the relay will release the magnetic lock or electric strike. The Lock Status Output will change state and the green LED will illuminate.

Compatible with any Request to Exit (REX) output, i.e. Request-to-Exit Push Bar, Keypad, Card Reader, Motion Sensor, Push Button or Key Switch.

**ELECTRICAL DATA**

12/24vdc Input Voltage.
75mA Input controller current.
3 – N/C Normally Closed Inputs with screw terminals.
3 – N/O Normally Open Inputs with screw terminals.
5 Amp (Resistive) Fail Safe Lock Output.
5 Amp (Resistive) Fail Secure Lock Output.
Lock Status Output – SPDT (Form C) Dry Contact.
Green LED Indicator – Illuminated when lock is activated.
Size: 3.20" (81.28mm) W x 2.00" (50.8mm) L x 1.00" (25.4mm) H.
Fits all SDC Power Supplies. Requires 1 Module space.
Supplied with mounting screws and standoffs for J-box mounting.
INSTALLATION INSTRUCTIONS
MODEL EMC
ELECTRIC LATCH RETRACTION SEQUENCER MODULE

ELECTRICAL SPECIFICATIONS
EMC: Electric Latch Retraction Sequencer
- Input Voltage: 12VDC or 24VDC (+/- 10%)
- Input Current: 140mA max
- ELR & Operator Contacts: N/C or N/O, field selectable
- 10 AMP @ 30VDC (Resistive)
- Access Control Inputs: N/O Dry Contact

ELR RELAY ACTIVATION PERIOD
Adjust to control the length of time that the ELR device output relay activates.

DIP SWITCHES
- SW1 – Select Single or Tandem Door activation.
- SW2 – Select time period to delay operator activation

STATUS LED’S
Provides a visual indication of the device latch status and relock timer status

ACCESS CONTROL INPUTS
A momentary closure will activate the ELR device. The device will release after the input is removed and the relock activation period has expired.

DOOR OPERATOR OUTPUTS (OPR)
Isolated relay contacts provide a delayed signal to activate the automatic door operator.

ELR DEVICE OUTPUTS (BAR)
Connect the SDC 6000FE, 6000PE, or LR100 device here.

SEQUENCER OPERATION:
The EMC dual channel sequencer module may be used with the S6000FE, S6000PE, or LR100 series Electric Latch Retraction (ELR) device to provide a delayed signal to operate an automatic door operator or when powering a pair of ELR devices from a single SDC 600 series power supply.

The two sequencer channels may be operated as two independent doors or in tandem mode for pairs of doors. Each sequencer channel provides an output to power the ELR device and a “delayed” dry auxiliary output for activation of an automatic door operator. All outputs are field selectable as Normally Open or Normally Closed.

When the EMC is used in the tandem mode, power supply requirements for a pair of doors are minimized. Since the attached electric latch retraction devices are powered in a sequential manner, the inrush current of each device is staggered. This creates a lower current requirement upon activation. A smaller power supply can now be used to operate the pair of devices.

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ADJUSTABLE RELOCK TIMER
T1 = BAR 1; T2 = BAR 2
(10 to 35 seconds; Added to Access Control Input time)

DOOR OPERATOR #1
ELR DEVICE #1

DOOR OPERATOR #2
ELR DEVICE #2

Recommended Electric Latch Retraction (ELR) Devices
S6000FE: SDC ELR Fire Device
S6000PE: SDC ELR Panic Device
LR100: SDC ELR Retrofit Kit
Input Voltage: 24VDC
Current Req: 700mA Activation/ 200mA Holding

Recommended Power Supply
602RF: 1A Regulated Power Supply
(for single door applications)
631RF: 1.5A Regulated Power Supply,
(for two door or tandem applications)
The SDC ACM-1 Access Control Module is an installer friendly interface relay board designed to release a magnetic locking device or electric strike, to provide a lock status output and to provide easy to use multiple wiring terminals for additional access control REX (Request to Exit) inputs.

**Operation**

When any REX input is activated, the relay will release the magnetic lock or electric strike. The Lock Status Output will change state and the green LED will illuminate.

Compatible with any Request to Exit (REX) output, i.e. Request-to-Exit Push Bar, Keypad, Card Reader, Motion Sensor, Push Button or Key Switch.

**ELECTRICAL DATA**

12/24vdc Input Voltage.
75mA Input controller current.
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