

APPLICATION NOTE

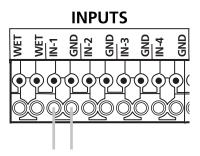
RETROFIT: MC25 to BR3-X

The purpose of this Application Note is to define the procedure for how to retrofit an application from an MC25 to a BR3-X logic module.

RE-WIRE

1. REWIRE ACTIVATION

- a) Locate the MC25's gray wires connecting to the activation source (e.g. push plates, motion sensor, wireless receiver).
- b) Disconnect the device's wires from the MC25, noting which are N.O. and COM.
- c) Wire to the BR3-X at IN-1 and GND terminal points.



2. REWIRE LOCK

3

- a) Locate the MC25's purple, red, and black wires connecting to the lock.
- b) Disconnect the device's wires from the MC25, noting which are N.C. (or N.O.) and COM.
- c) Wire to the BR3-X at NC-1 (or NO-1) and COM-1 terminal points.

b) Disconnect the device's wires from the MC25, noting which

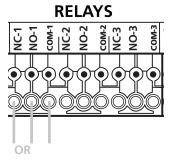
c) Wire to the BR3-X at NC-2 (or NO-2) and COM-2 terminal

a) Locate the MC25's green, yellow, and blue wires

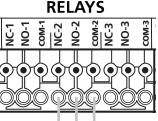
connecting to the door control.

are N.C. (or N.O.) and COM.

MC25 WIRE COLORS			
N.C.	=	purple	
N.O.	=	black	
COM	=	red	



	COLORS	VIRE	MC25 V
	green	=	N.C.
	blue	=	N.O.
1	yellow	=	COM



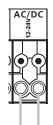
OR

4. REWIRE TO POWER

points.

REWIRE TO DOOR CONTROL

- a) Locate the MC25's orange and brown wires connecting to power.
- b) Disconnect the device's wires from the MC25.
- c) Wire to the BR3-X at <u>both</u> power (AC/DC) terminal points.



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MC25 JUMPERS

JP2

JP1

- 1. Observe the position of the DRY/WET and AC/DC jumpers on the MC25, noting their configuration for WET or DRY input.
- 2. The BR3-X is already configured for a DRY input, so if your MC25 shows a WET input configuration, switch the jumper to WET.
- 3. The BR3-X is already configured for DC output, so if your application is requiring AC output, switch the jumper to AC.

IMPORTANT NOTES:

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78.6036.01 RETROFIT MC25 TO BR3-X 20211006

* If previous application involved bridge rectifier, note that the BR3-X has built-in rectifier, so choice of jumper automatically rectifies if needed.

PROGRAM BR3-X

- * When using a WET output and rectifying AC to DC, the BR3-X output will be ~40% higher than input.
- 1. The BR3-X must bet set to Function 28. To do so, first press and hold the INCR and FUNC buttons for 3 seconds until the display toggles between FF and 00.
- 2. Press the INCR button repeatedly until you reach "28".

DETERMINE BR3-X PARAMETERS

1. Using the charts in the Appendix, observe the DIP switch configurations on the MC25.

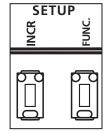
	Relay 1	Relay 2	Delay
MC25 DIP switches	1, 2, 3	4, 5, 6, 7	8
BR3-X parameters	h1	h2	d1

2. On the BR3-X, press FUNC to cycle through the parameters, then use the INCR button to reach the appropriate value. Repeat this for h2 and d1 parameters.

Refer to the BR3-X full User's Guide (75.5871) for more information.

BEA, INC. INSTALLATION/SERVICE COMPLIANCE EXPECTATIONS BEA, Inc., the sensor manufacturer, cannot be held responsible for incorrect installations or incorrect adjustments of the sensor/device; therefore, BEA, Inc. does not guarantee any use of the sensor/device outside of its intended purpose.				
BEA, Inc. strongly recommends that installation and service technicians be AAADM-certified for pedestrian doors, IDA-certified for doors/gates, and factory-trained for the type of door/gate system.				
Installers and service personnel are responsible for executing a risk assessment following each installation/service performed, ensuring that the sensor/ device system performance is compliant with local, national, and international regulations, codes, and standards.				
Once installation or service work is complete, a safety inspection of the door/gate shall be performed per the door/gate manufacturer's recommendations and/or per AAADM/ANSI/DASMA guidelines (where applicable) for best industry practices. Safety inspections must be performed during each service call – examples of these safety inspections can be found on an AAADM safety information label (e.g. ANSI/DASMA 102, ANSI/DASMA 107, UL294, UL325, and International Building Code).				
Verify that all appropriate industry signage, warning labels, and placards are in place.				

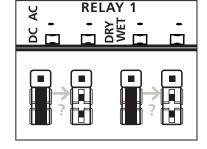




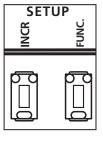
SETUP

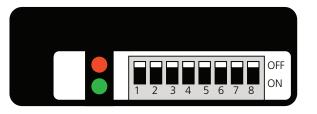
R S S

FUNC.



BR3-X JUMPERS





RELAY 1

TIME DELAY (sec)	DIP 1 (1 sec)	DIP 2 (2 sec)	DIP 3 (4 sec)
1	ON	OFF	OFF
2	OFF	ON	OFF
3	ON	ON	OFF
4	OFF	OFF	ON
5	ON	OFF	ON
6	OFF	ON	ON
7	ON	ON	ON

RELAY 2

TIME DELAY (sec)	DIP 4 (1 sec)	DIP 5 (2 sec)	DIP 6 (4 sec)	DIP 7 (8 sec)
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

DELAY

TIME DELAY (sec)	DIP 8
0.5	OFF
1.5	ON