QUICK GUIDE





Visit website for full User's Guide and language options.

Programmable, 3-Relay, Advanced Logic Module & Restroom Controller

(US version)



READ BEFORE BEGINNING INSTALLATION & SET-UP

- Shut off all power going to header before attempting any wiring procedures.
- Maintain a clean and safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- ESD (electrostatic discharge): Circuit boards are vulnerable to damage by electrostatic discharge. Before handling any board ensure you dissipate your body's ESD charge.
- Always check placement of all wiring before powering up to ensure that moving door parts will not catch any
 wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.
- DO NOT attempt any internal repair of the components. All repairs and/or component replacements must be performed by BEA, Inc. Unauthorized disassembly or repair:
 - 1. May jeopardize personal safety and may expose one to the risk of electrical shock.
 - 2. May adversely affect the safe and reliable performance of the product resulting in a voided warranty.

SET-UP / WIRING

Set jumpers.

RELAY 1 OUTPUT	DRY/WET JUMPER ²	AC OUTPUT VOLTAGE ¹	DC OUTPUT VOLTAGE ²
DRY	both jumpers set to DRY	N/A	N/A
WET ¹	both jumpers set to WET	both jumpers set to AC	both jumpers set to DC

Wiring according to desired function (reference full User's Guide for complete set of wiring diagrams).



NOTES:

- 1. If voltage Input at the Br3-X is AC, then output selection can be AC or DC.
- 2. When DC 'WET' output is selected, COM terminal is positive (+) and the ground (-) is switched between NO and NC.

PROGRAMMING

- Press and hold INCR + FUNC for 3 seconds. 1.
- 2 Display will toggle between FF / 00 for 5 seconds.^{1,2}
- 3. While FF / DD is displayed, press INCR to cycle through functions.
- Once desired function is selected, press FUNC to cycle through 4. parameters.
- 5 Display will toggle between parameter and its current value for 5 seconds.
- 6. Press³ INCR to cycle through parameter's values.
- 7. Repeat steps 4-7 until all function parameters are set.
- Wait 5 seconds for Br3-X to save and display function. 8.
- 9. Test the device to ensure that all function parameters are working correctly and as intended for the specific application.





NOTES:

- 1. Function 00 disables the BR3-X.
- 2. "nP" = no parameters are applicable for the selected function.
- using only relay 1, h1 must be set... if using relay 1 and relay 2, h1, h2, and d1 must be set.
- 4. Pressing and holding INCR will rapid cycle.



FUNCTIONS REFERENCE

FUNCTION	DESCRIPTION	LOGIC	
10	timer	 activation of relay 1 via trigger of input 1 reverse logic available 	
11	ratchet / latching	ratchet/latching of relay 1 via trigger of input 1	
22	2-relay sequencer + inhibitor	 sequence of relay 1 and relay 2 with inhibiting of input 1 until input 2, input 3, or WET input is triggered activation of input 4 reinhibits input 1 	
28	2-relay sequencer + door position	 sequence of relay 1 and relay 2 via trigger of input 1 or WET input input 2 allows delay to run when open but not when closed 	
29	deactivation timer	 sequence of relay 1 and relay 2 via trigger of input 1 or WET input input 2, once opened after sequence, allows relay 1 to deactivate input 2 allows delay to run when open but not when closed input 3 disables sequence, reverse logic available 	
36	3-relay sequencer + '1-shot'	 sequence of relay 1 and relay 2 and relay 3 via trigger of input 1 or WET input relay 1, relay 2, and relay 3 can be maintained or '1-shot' 	
37	3-relay sequence with 'independent relay'	 sequence of relay 1 and relay 2 and relay 3 via trigger of input 1 or WET input relay 1, relay 2, and relay 3 can be 'independent' or sequenced 	
50	interlock timer	• interlock of relay 1 and relay 2 via trigger of input 1 and input 2, respectively	
55	interlock ratchet / latching	interlock ratchet of relay 1 and relay 2 via trigger of input 1 and input 2, respec- tively	
65	2-way 2-relay sequence	 sequence of relay 1 and relay 2 via trigger of input 1 sequence of relay 2 and relay 1 via trigger of input 2 input 3 triggers relay 1 individually, input 4 triggers relay 2 individually 	
nL	normally locked restroom	 sequence of relay 1 (lock), relay 2 (door), and relay 3 (occupied indicators) for normally locked, single occupancy restrooms 	
nU	normally unlocked restroom	 sequence of relay 1 (lock), relay 2 (door), and relay 3 (occupied indicators) for normally unlocked, single occupancy restrooms 	
dn	3-relay sequencer + 'day / night mode'	 sequence of relay 1 and relay 2 and relay 3 via trigger of input 1 or WET input input 2 operation dependent upon input 4 ('day / night mode') 	
00	disable	 Br3-X disabled DD is the default setting and has no assigned function 	

— PARAMETERS REFERENCE —

PARAMETER	DESCRIPTION	LO	GIC
h l*	relay 1 hold time	ወ - 60 seconds countdown begins AFTER release of input 1 or WET input	
h2*	relay 2 hold time	በጋ - 60 seconds countdown begins AFTER d ፣ (delay between relay 1 & relay 2) expires	
h∃*	relay 3 hold time	סם - 60 seconds countdown begins AFTER לפ (delay between relay 1 & relay 3) expires	
91	delay between relay 1 & relay 2	ם - 6ם, _ ו (1/4), _ כ (1/2), _ J (3/4) seconds delay begins AT activation of input 1 or WET input	
95	delay between relay 1 & relay 3	00 - 50, _ + (1/4), _ 2 (1/2), _ 3 (3/4) seconds delay begins AT activation of input 1 or WET input	
rL	reverse logic	ם = normal logic input 1 trigger must be NO and close its contact to trigger	I = reverse logic input 1 trigger must be NC and open its contact to trigger
nP	no parameters	no parameters available for selected function	

* When using Function 36 as "one-shot," countdown begins as soon as input 1 or WET input is triggered.

TECHNICAL SPECIFICATIONS

Supply Voltage	12 – 24 VAC/VDC ±10%
Current Consumption	30 – 130 mA (DRY output)
Input Input 1, 2, 3, 4 WET input	DRY contact 5-24 VAC/VDC ±10%
Contact Rating Relay 1 (DRY) Relay 1 (WET) Relay 2 Relay 3	3 A @ 24 VAC or 30 VDC 1 A 3 A @ 24 VAC or 30 VDC 1 A @ 24 VAC or 30 VDC

Specifications are subject to change without prior notice. All values measured in specific conditions.

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/ANS/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. ANS/DASMA 102, ANS/DASMA 107, UL294, UL325, and International Building Code).

Verify that all appropriate industry signage, warning labels, and placards are in place

ANSI



DASMA

DHI

⊛IDA