EWC-18

WASHROOM DOOR CONTROL RELAY

Version 2.0

INSTALLATION MANUAL



Entrex Door Controls Inc.

40-DRG00136

Entrex International Ltd.

<u>EWC-18</u>

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Table of Features and Benefits

	ou can place anywhere, even inside the perator header if you wish.	
Op	norstor hoader if you wish	
	By utilizing a hidden magnetic contact	
	vitch, even manually opening the door	
	ill put the system in unlock mode.	
	mplifies wiring. Bring all the Inputs and	
1	utputs to one box. Every device has it's	
	wn terminal, putting an end to confusing	
	iring.	
	Panic switch input is now provided hereby the occupant can signal for	
	sistance. The door will automatically	
	block and open (and remain open) until	
1	e switch is reset.	
•	fixed time delay of 0.5 seconds allows	
	e lock to retract before the operator	
	nergizes. The operator hold-open time is	
	justable from 3-30 seconds. The Panic	
	witch output can be maintained or pulsing.	
Time-out jumper By	By moving a jumper you may select	
	whether the door can stay locked	
	definitely, or, automatically unlock after	
	preset time of fifteen minutes.	
	Oversize relays ensure reliability, and	
-	ompatibility with older style strikes, or	
	agnets. Alternatively, you could use this	
1	utput for a lighted sign instead of a door ock.	
	Power-On L.E.D., and two Relay	
	E.D.'s simplify installation and trouble	
	nooting.	
	ou can select either dry contacts for the	
	rike, or, 24VAC switched power directly	
	the strike, thereby simplifying wiring.	

ENTREX #EWC-18 WASHROOM DOOR Control Relay

Theory of Operation

Automatic Operation:

Entering automatically is accomplished by pushing the exterior Wall switch. If the Washroom is unoccupied, the door will open automatically. If the Washroom *is* occupied then the door will not open, and may be locked (if the occupant pushed the interior Lock button).

After entering the Washroom, the occupant may push a 1 5/8" Red *Lock* button, which will energize an electric strike, and remove the exterior Push switch from the circuit.

When the occupant desires to exit the Washroom, several options are available. To have the door unlock and open automatically, he/she simply pushes the interior Wall switch. This will reset the EWC-18 to standby mode.

Manual Use:

The door may be used manually. If the Washroom is unoccupied, enter by simply pushing (pulling) the door open. Once inside, the door may be locked by pushing the red *Lock* button. To exit the Washroom, turn the (lever) handle and pull (push) the door open. Whenever a *locked* door is opened manually, a concealed magnet switch resets the unit into standby mode.

Emergency Panic Switch:

This version of the EWC-18 will accept a maintained input on Terminals 9 & 10. Should an emergency situation occur and assistance from outside be required, the occupant can push a maintaining type push button. The EWC-18 will unlock, then open the Automatic door . (The maintaining type switch is required to keep the door held open continuously). Further, Relay #3 is now activated. This output is used to signal for assistance (visual and/or audible). The installer can choose a continuous, or a pulsing output, with user adjustable On and Off times. Reset of the unit is accomplished by pulling the switch by hand (or key).

Emergency Time-out Feature:

An added safety feature in the EWC-18 is the ability to automatically reset to standby mode after a fixed time period of 15 minutes. This feature may be overridden by removing a jumper on the circuit board.

Technical Specifications for Mdl # EWC-18

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Washroom Door Control Relay

Model	EWC-18	
Size	3" x 6" x 2".	
Enclosure	ABS plastic. Others optional	
Mounting	Double sided tape, or screws.	
Colour	Black. Others optional	
Operating Voltage	24 VAC ±15%	ا به سیسد بدا ا
Current Draw	100 mA	·
Response Time	.03 seconds	
Inputs	Up to 5 x N.O. dry Contacts.	
Outputs	Three standard Form 'C' relays	
	One has ability to supply	
	24VAC switched power to an	
	Electric Strike. Another signals	
	the door operator. The third is	
	for an Emergency annunciator	
	or light, etc.	
Contact Rating	10 Amps @ 277VAC, or 30	
	VDC	
Electrical Life	500,000 operations @ 1/2 rated	
	capacity	
Indicators	Power On L.E.D., and Relay	
	On L.E.D.'s.	
Time Delays	Three standard.	
#1 D.O.R. for Operator	3 - 30 seconds	
#2 D.O.O. for Relay #3	0.1 - 3 seconds	
#3 D.O.R. for Relay #3	0.1 - Infinity	

These specifications are subject to change without notice!

