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USA

EDGE EVO®

Door Module

EDM-M

INSTALLATION GUIDE

82342-901, Rev C.1

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The EDGE EVO Door module is wired to interface with the EDGE EVO device (Hi-O Networked Controller & Reader or Networked Controller) with electronic door components. Designed for providing interface to traditional discrete access inputs and outputs, the Door Module provides four input analog/digital inputs and two outputs. Configure the Door Module in two ways; as a primary door interface to REX, Door Position Switch, Battery Fail, Power Fail, Lock, and Aux (Group 1) or as a general purpose input/output module (Group 2).

Specifications

CONDITIONS				VOLTAGE DC (VDC)	CURRENT (Amp)	POWER (W)	OPERATING TEMPERATURE	CABLE LENGTH	UL REF NUMBER
Input	DC Input (NSC)			+12 VDC	0.04 Amp	0.48	32° - 122°F (0° - 50° C)	Inputs = 500 ft (150 m) Outputs = 500 ft (150 m) Hi-O CAN Bus Total Length 100 ft (30 m) - 22 AWG ● 0.65mm ● 0.33mm² Maximum between drops 30 ft (10 m) 22 AWG ● 0.65mm ● 0.33mm²	MEDMAXNN x = K for Black G for Grey
				+24 VDC	0.04 Amp	0.96			
	DC Input (MAX)			+12 VDC	0.80 Amp	9.6			
				+24 VDC	0.80 Amp	19.2			
Supervised inputs (AC, Batt, REX, Door Mon) (MAX)			0-5 VDC Reference	0.005 Amp (Sink)	0.025				
Output	Strike *** / AUX NC or NO DC Output (MAX)	AUX 12 VDC Input @ Controller	Unregulated (Wet) Jumpers	+10 to +12 VDC	0.70 Amp*	8.40			
		AUX 24VDC Input @ Controller	Unregulated (Wet) Jumpers	+23 to +24 VDC	0.70 Amp*	16.80			
			Regulated (Wet) Jumpers – 12 VDC	+10 to +12 VDC	0.70 Amp*	8.40			
		PoE Input @ Controller	Unregulated (Wet) Jumpers	+16.5 to 24 VDC	0.30 Amp*	7.2			
			Regulated (Wet) Jumpers – 12 VDC	+10 to +12 VDC	0.50 Amp*	6.0			
		AUX 12-24 VDC / PoE Input @ Controller	Jumpers Set to Dry	+12 to 24 VDC External	2.00 Amp**	24.00			

NSC = Normal Standby Condition

** Each Relay

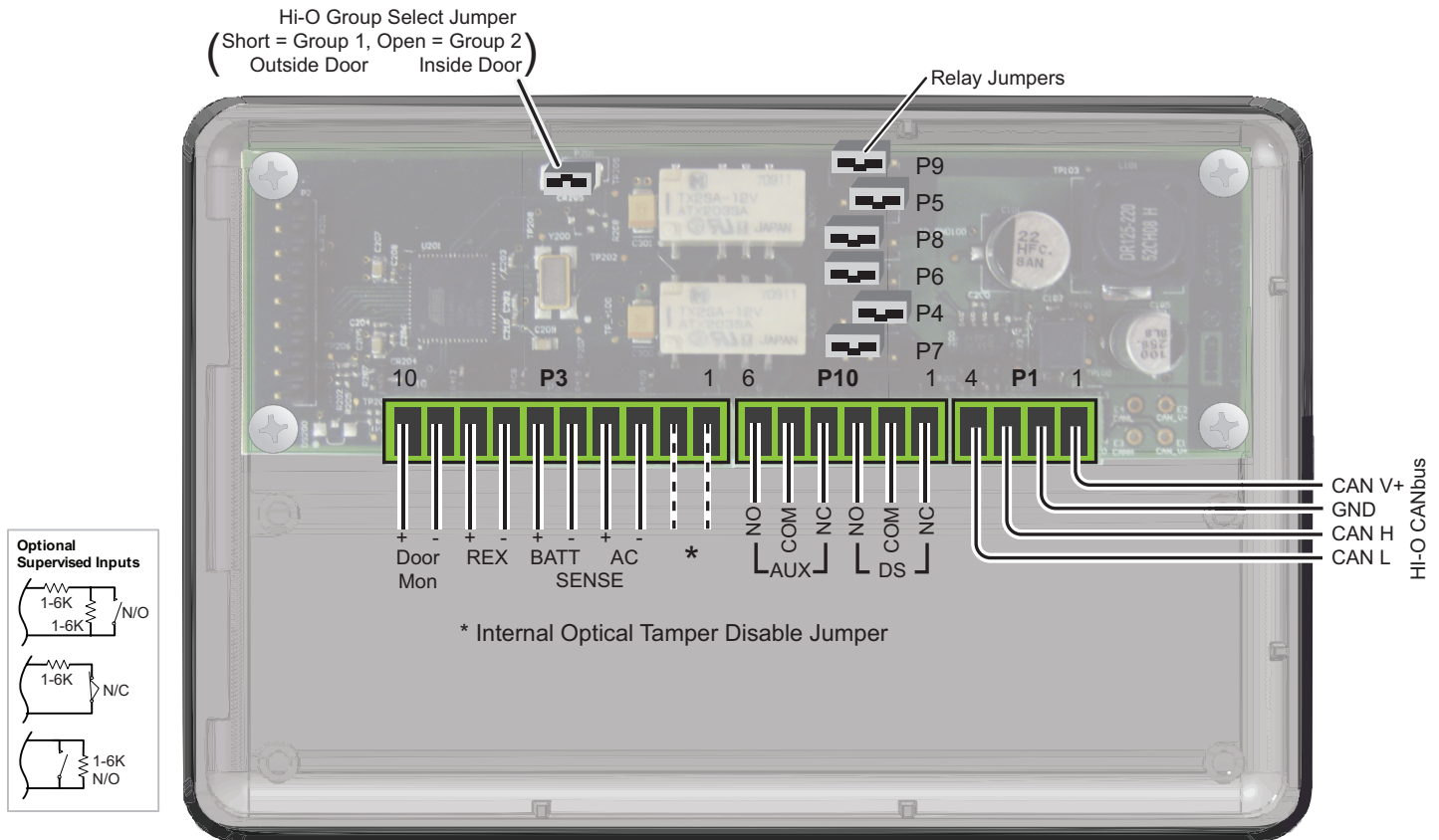
* Combined output rating not to exceed V*I = W

*** Shared between relays

1.2 Amp (+24 VDC AUX Input, 28.8 W)

1.2 Amp (+12 VDC AUX Input, 12.96 W)

Wiring



CAUTION: Some magnetic locks exhibit both high inrush current when activated and a high instantaneous break voltage when de-energized due to magnetic field collapse. It is recommended you use of a snubber circuit across the controlling relay terminals to protect the controlling relay contacts. Go to support.hidglobal.com, see Solution 891 - How do I wire a High In-Rush Current locking device to VertX/EDGE EVO. Not evaluated by UL.

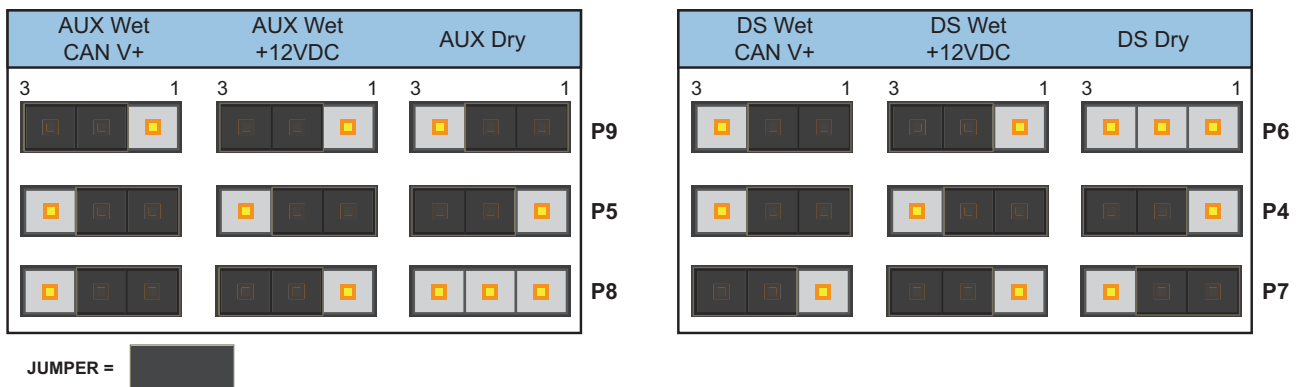
Note: Connect the Door Monitor to avoid a Door Forced Alarm.

Internal Optical Tamper

To disable the internal optical tamper sensor, attach a jumper wire from P3 pin 1 to P3 pin 2.

Note: If desiring an external tamper, wire an unsupervised Normally Closed contact to the Optical Tamper pins.

Relay Jumpers



Door Interface Board Groups 1 and 2

Group 1

Following are the inputs when the unit is configured for Group 1.

Input	Port	Pin
AC -	P3	Pin3
AC +	P3	Pin 4
BATT -	P3	Pin 5
BATT +	P3	Pin 6
REX -	P3	Pin 7
REX +	P3	Pin 8
Door Mon -	P3	Pin 9
Door Mon +	P3	Pin 10

Group 2

Following are the inputs when the unit is configured for Group 2.

Input	Port	Pin
Input 4 -	P3	Pin3
Input 4 +	P3	Pin 4
Input 3 -	P3	Pin 5
Input 3 +	P3	Pin 6
Input 2 -	P3	Pin 7
Input 2 +	P3	Pin 8
Input 1 -	P3	Pin 9
Input 1 +	P3	Pin 10

Regulatory

UL

Connect only to a Listed Access Control / Burglary power-limited power supply, or Listed Access Control / Burglary PoE (Power-over-Ethernet) adapter.

All National and local Electrical codes apply. Install in accordance with NFPA70 (NEC), Local Codes, and authorities having jurisdiction.

Indoor use only.

EDGE EVO Modules are UL Listed for installation within a protected area.

Mount onto UL Listed Single-Gang electrical box.

All panic and alarm hardware and equipment shall be UL Listed.

All cabling and wire shall be UL Listed or Recognized and suitable for the application.

All splices and connections shall be mechanically secure and bonded electrically.

For operation, testing and maintenance, refer to the Hi-O Network Controller & Reader (82000-922) and Hi-O Networked Controller Installation Guides (82000-920).

CAUTION: Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canada Radio Certification

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE MARKING

HID Global hereby declares that these proximity readers are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The controller portion is in compliance with the essential requirements and other relevant provision of Directive 2004/108/EC.

JAPAN MIC

この装置は認証済みです。

TAIWAN NCC

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

According to «Administrative Regulations on Low Power Radio Waves Radiated Devices» without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.



ACCESS experience.

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Patent Pending

Check reader label for current regulatory approvals.

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