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USA

EDGE EVO®

Lock Module

ELM

Installation Guide

82301-901, Rev C.1
December 2012

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This Hi-O interface module is wired to interface the EDGE EVO device (Controller/Reader & Module or Networked) with electronic door components. The Lock module provides outputs to an electronic locking device.

Specifications

CONDITIONS				VOLTAGE DC (VDC)	CURRENT (Amp)	POWER (W)	OPERATING TEMPERTURE	CABLE LENGTH	UL REFERENCE NUMBER
Input	DC Input (NSC)			+12 VDC	0.04 Amp	0.48	32° - 122°F (0° - 50° C)	Lock Control Circuit 100 ft (30 m) = 22 AWG • 0.65mm • 0.33mm2 200 ft (60 m) = 18 AWG • 1.02mm • 0.82mm2 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	ELMAxNN X = K for Black G for Gray
				+24 VDC	0.04 Amp	0.96			
	DC Input (MAX)			+12 VDC	1.2 Amp	14.4			
				+24 VDC	1.2 Amp	28.8			
Output	DC Output (MAX)	AUX 12 VDC Input @ Controller	Unregulated Jumpers	+10 to +12 VDC	0.46 Amp*	5.52			
		AUX 24 VDC Input @ Controller	Unregulated Jumpers	+23 to +24 VDC	1.0 Amp*	24.0			
			Regulated Jumpers – 12 VDC	+10 to +12 VDC	1.0 Amp*	12.0			
		PoE Input @ Controller	Unregulated Jumpers	+16.5 to 24 VDC	0.30 Amp*	7.2			
			Regulated Jumpers – 12 VDC	+10 to +12 VDC	0.60 Amp*	7.2			

NSC = Normal Standby Condition
* Combined output rating not to exceed V*I = W
1.2 Amp (+24 VDC AUX Input, 28.8 W)
1.2 Amp (+12 VDC AUX Input, 12.96 W)

Output Power Selection	
P103	
1 & 2	2 & 3
12 VDC	CAN / DC Input

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.

Mounting

Install the EDGE EVO Lock Module within a UL Listed single-gang electrical box or optionally within a hollow metal door frame (shown).

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 Modules are UL Listed for installation within a protected area.
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 modifcations to this devise 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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