

Overview

By combining the Wiegand Interface four-state supervisory monitoring/reporting feature with any conventional Proximity, Mifare®, and ISO 15693 readers, security system administrators will receive immediate alarm notification if a short circuit, cut line, or open/close circuit condition occurs between the WIU-4, Request-to-Exit (REX), and door Data Inputs (DI).

The WIU-4 provides a wiring union and Wiegand-to-Supervised F/2F transfer point for use with GE access control systems. The WIU-4 provides the communications interface that enables support of up to 16 Wiegand output readers per microcontroller.

Standard Features

- Four-state supervised monitoring/reporting for door and REX signals
- Reader-to-microcontroller cable distance of up to 1,000 ft. (304.8 m) @ 12 VDC with 20 AWG cable
- Heavy-duty 8.0 A door strike relay (30 VDC maximum)
- Converts Wiegand data formats into Supervised F/2F format
- Supports standard two-wire Wiegand output communications
- Supports up to 30 VAC door strikes
- Short circuit protection with self-resetting fuses
- Switch and adjustment free
- FCC, CE mark, UL 294

Configuration Information

The WIU-4 is fully compatible with both Picture Perfect and Secure Perfect Editions. Connected individually to standard Wiegand readers, the WIU-4 transfers the Wiegand badge data to the Micro/5-PX or Micro/5-PXN equipped with up to two 8RP Reader Processor boards. For smaller systems containing up to four readers per microcontroller, the WIU-4 can be configured with a Micro/PX-2000 or Micro/PXN-2000.

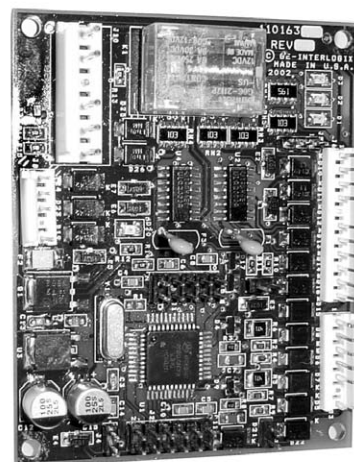
The WIU-4 also bridges common wiring connections for junction box designs. Door contact, request-to-exit, door strike, and alarm shunt outputs are all supported by the WIU-4.

Unit Operation

The WIU-4 works with current microcontroller firmware versions and supports most non-proprietary Wiegand data formats.

Wiegand Interface Unit -4 (WIU-4)

Badge Identification Data Converter
(4-State Supervision)



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Specifications

Cabling Distance	
Reader to WIU-4	250 ft. (76.20 m) @ 12 VDC with 20 AWG cable
Microcontroller to WIU-4	1,000 ft. (304.8 m) @ 12 VDC with 20 AWG cable
Dimensions (HWD)	3.10" x 2.50" x .644" (78.74 x 63.50 x 16.35 mm)
Humidity Range	0 to 95%, non-condensing
Status LEDs (green)	Door contact, On: Door closed Data, Flashing: Data transfer Door DO, On: Active
Operating Temperature Range	41° to 150° F (5° to 66° C)
Relay, door strike	5.0 amps, 30 VDC
Weight	1.6 oz (45.35 g)

Compatibility	
Access Control Systems	<ul style="list-style-type: none"> Picture Perfect Editions Firmware 1.70 or higher Secure Perfect Editions Firmware 3.0 or higher
Host Systems	<ul style="list-style-type: none"> Picture Perfect Editions 1.55 or higher Secure Perfect Editions 3.0 or higher
Microcontrollers	Micro/5-PX w/8RP, Micro/5-PXN w/8RP, Micro/PX-2000, Micro/PXN-2000
Readers	All standard two-wire , Wiegand output
Wiegand Data Formats	Program to support multiple Wiegand data formats up to 40-bits Default Wiegand data formats include 26-, 32-, 35-, 37- and 40-bit

Ordering Information

430160001	Wiegand Interface Unit-4 (WIU-4)
521005001	Micro/Junction cabinet with key/lock and tamper switch (does not include M/RJ pcb)

