

Overview

The GE Model 97x Proximity Perfect® readers provide the convenience of proximity technology in a variety of styles. All are economical and easy to install, and provide a full range of field-selectable operation modes. All models include a rugged, weather-resistant ABS plastic housing.

Model 97X readers mount directly on a wall or to a standard USA dual-width electrical box. Models 970 and 972 are designed for conventional wall installation. Metal wall installation requires the metal backplate (supplied with Models 971 and 973). Back-to-back reader installation requires use of Models 971 and 973 with an optional isolation plate. This plate prevents a badge from being read by a reader mounted on the opposite side of a door.

Models 972 and 973 include a keypad for use when a Personal Identification Number (PIN) entry is required for added security.

Each reader includes a new mechanical tamper switch that reports if the reader is completely removed from the wall, in addition to detecting when the reader has been separated from its back plate.

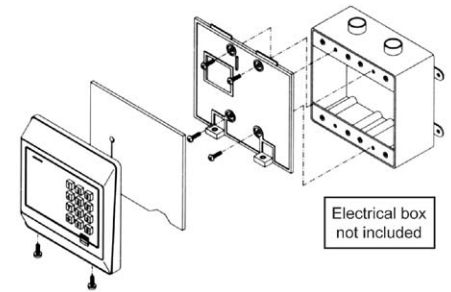
Standard Features

- Badge read-range distance of up to 10 inches (254 mm)
- Reads ProxLite®, ISO ProxLite® and Entrée® badges and key tags
- Four selectable modes of operation
- Supervised reader-to-microcontroller communication
- Built-in reader tamper detection

Reader Operation

The Model 97X readers provide supervised operation for continuous checking of reader, door contact, exit button and communication line status. The Micro/PX-2000, Micro/PXN-2000 and Micro/5 2RP, 2SRP and 8RP reader processor boards are fully compatible.

The readers provide a maximum badge read distance or up to 10 inches (254 mm). Read range is a function of reader power and card type. Read range is also influenced by site conditions, wire gauge and cable distance. DIP switches allow the optimum reader power setting to be selected for site conditions.



The Model 972 Card Reader

The Model 97X readers have four switch-selectable modes of operation; industry-standard Wiegand, standard F/2F, Supervised F/2F and Silent Supervised F/2F (for sites where no audible or visual indication of reader communication loss is required). Both supervised modes are compatible with Micro/2, Micro/4, MicroProx®, Micro/5, Micro/PX-2000 and Micro/PXN-2000 microcontrollers.

Proximity Readers

Model 970, 971, 972 and 973



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Latin America
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Product Contents

The Model 97X readers include the reader, 15 ft. (4.6 m) proximity reader cable, installation hardware, weather seal gasket and installation instructions.

Specifications

Color	Gray or black
Physical Dimensions	Height: 4.75 inches (121 mm)
	Width: 5.50 inches (140 mm)
	Depth: 0.90 inches (23 mm)
Operating Temperature Range	-31° to 151° F (-35° to 66° C)
Humidity Range	5% to 95%, non-condensing
Minimum Wiring	4 conductor
Certifications	FCC Part 15; CE Mark; UL 294

Maximum Read Distance		
Low Power (75 mA supply current)	Medium Power (150 mA supply current)	High Power (200 mA supply current)
Model 970/972: 7in. (178 mm) Model 971/973: 5 in. (127 mm)	Model 970/972: 9 in. (229 mm) Model 971/973: 6 in. (152 mm)	Model 970/972: 10 in. (254 mm) Model 971/973: 7 in. (178 mm)

Cable Distance, 13.6 Volts		
Low Power (75 mA supply current)	Medium Power (150 mA supply current)	High Power (200 mA supply current)
18 AWG: 5,500 ft. (1,676 m)	18 AWG: 2,200 ft. (671 m)	18 AWG: 600 ft. (183 m)
22 AWG: 2,000 ft. (610 m)	22 AWG: 900 ft. (274 m)	22 AWG: 250 ft. (76 m)
18 AWG: 3,500 ft. (1067 m)	18 AWG: 1,100 ft. (335 m)	18 AWG: N/A
22 AWG: 1,500 ft. (457 m)	22 AWG: 450 ft. (137 m)	22 AWG: N/A
Compatibility	Micro/2, Micro/4, Micro/5-E, Micro/5-PX, Micro/5-PXN, Micro/PX-2000, Micro/PXN-2000	
Badge Formats	ProxLite, ISO ProxLite, Entrée badges and ProxLite key tags	
Indicators	Red, yellow and green LEDs and beeper	

Ordering Information

430085001	Model 970 reader*, gray, conventional walls, 15' cable
430085002	Model 970 reader*, black, conventional walls, 15' cable
430085501	Model 971 reader*, gray, metal walls, 15' cable
430085502	Model 971 reader*, black, metal walls, 15' cable
430088001	Model 972 reader* with keypad, gray, conventional walls, 15' cable
430088002	Model 972 reader* with keypad, black, conventional walls, 15' cable
430088501	Model 973 reader* with keypad, gray, metal walls, 15' cable
430088502	Model 973 reader* with keypad, black, metal walls, 15' cable
470434001	Model 97x back-to-back metal mounting plate, gray
470434002	Model 97x back-to-back metal mounting plate, black
385001001	*Installation wrench (required)
470433001	Back-to-back mounting plate, gray

