



Product Data Sheet

S1033000

Contactless Smart Card Readers M280/285

Overview

The GE Model M280 (S1033000) and M285 (keypad)(S5200000) Contactless Smart Card Readers are the latest evolution in access security technology, offering true universal compatibility with all ISO 15693 and ISO 14443A Mifare® security badges, disc tags, and key fob credentials. This 100% industry compatibility with ISO standards is just one of the unique characteristics of these GE readers.

The M280 and M285 also allow Mifare Sector reading features. This allows a special coded sector of a Mifare® transponder to be read, which is useful in applications like vending and cashless applications.

100% ISO Compatibility

The readers comply with ISO 15693 and ISO 14443A standards for readers and credentials, unlike some other products that use proprietary and exclusive formats. This allows you to mix and match existing 100% ISO-compliant credentials with the GE readers. This also helps you to preserve current investments, eliminate single-supplier dependency, and enjoy a lower total cost of security system ownership.

Intelligent Supervision

The GE readers feature supervised four-state (open contact, closed contact, cut wire, and shorted wire) integrity monitoring for door contacts, REX (request to exit), and reader communication. This intelligent supervision ensures that security personnel are notified if a reader is tampered with, a door is breached or circuit bypassed (cut or short). This distinctive capability sets the GE readers apart as the most secure within the industry, and the brand of choice for the world's largest facilities.



Standard Features

- Universal compatibility with all ISO 15693 and ISO 14443A Mifare badges, tags, and key fob credentials (no sector programming required)
- Supervised four-state (open, closed, wire cut, and wire short) monitoring for door contacts, REX (request to exit), and reader communications
- Read range up to 5 cm for ISO 15693 compliant credentials (range may vary with credential quality and installation environment)
- IP 65-rated sealed electronics for deployment in both interior and exterior environments
- 12-button tactile membrane keypad (3 X 4 matrix) for two-factor identification (Model 285 S5200000 only)

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Specifications

Colour	Grey
Cable recommendations	Belden (shielded) 8777, 9873, 9773
Certifications	FCC Part 15, CE, UL 294
Current Consumption	105 mA @12 VDC
Dimensions with backplate	111 x 84 x 28 mm
Environment	Indoor/Outdoor
Relative humidity	5 to 95%, non-condensing
IP rating	IP65 (IEC 529)
Input voltage	8 to 30 VDC
Keypad (Model 285 only)	12-button (3 x 4 matrix) tactile membrane keypad
Microcontroller communications	F/2F supervised
Supervision monitoring	Door input, REX, and reader communication monitoring
Wiring	4 conductors (min.) Additional required for REX and door sensor connections
Operating temperature	-25 to +60°C
Read range	50 mm max. for ISO 15693 credentials 50 mm maximum for ISO 14443A Mifare credentials
Weight	158.7 g
Cabling distance	
At 12 VDC	22 AWG cable, distance - 952 m
At 13.6 VDC	22 AWG cable, distance - 400 m
International standards	ISO 15693 and ISO 14443A Mifare
Microcontroller compatibility	Micro/5-PX and Micro/5-PXN with 2RP and 8RP processor boards (incompatible with Micro/5 and 2SRP board configurations) Micro/PX-2000 and Micro/PXN-2000
Status indicators	Red, yellow and green LEDs, and beeper
Access control systems	Picture Perfect Editions Secure Perfect Editions

Ordering Information

Part No.	Description
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Weather Resistant/ Lifetime Warranty

The GE reader housings are made of durable UV-resistant polycarbonate material that inhibits discoloration in all types of conditions, including direct sunlight. The GE readers also feature sealed (potted) electronics for additional protection against inclement weather. Combine all this protection with a lifetime warranty, and any organization can confidently expect years of exemplary GE reader service.

Options

- Model 280 and 285 Contactless Smart Card Reader
- Color: Gray
 - Removable cable connector
 - 12-button (3 x 4 matrix) tactile membrane keypad (Model 285 only)
 - Isolation spacer (optional for back-to-back 24x reader mounting)
 - Mounting plate, gray (optional for back-to-back 24x reader mounting)

