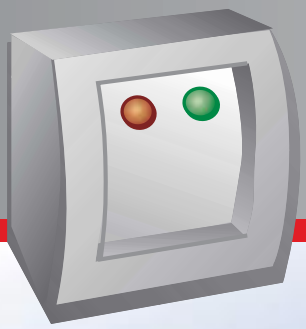


S853 Common Access Card (CAC) Reader

COMMON ACCESS CARD READERS

The Model S853 is designed to read the Common Access Card which combines both a microprocessor contact "chip" (complying with ISO 7816) and Philips MIFARE® DESFire Contactless Smart Card format.

Designed to meet the increasing demands for high speed, triple-Data Encryption Standard (DES) Secured Contactless Smart card solutions, MIFARE DESFire is an ideal fit for service providers and system integrators looking to develop convenient, multi-functional smart card-based systems for use in identity and e-government as well as other uses such as transportation, city loyalty and e-purse schemes. The chip's core characteristics - Fast, Innovative, Reliable and Secure, as described by the 'Fire' part of its name - are supported by a unique combination of flexible memory organization structure alongside impressive data transaction rates, making it ideal for Secure Contactless Smart Card services.

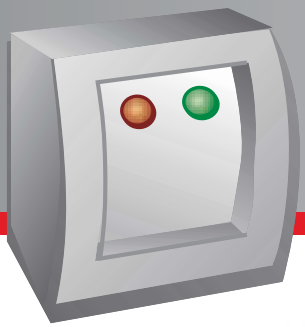
MIFARE DESFire operates at a distance of 0.5-1.2" (10-30mm) and in accordance with the international standard ISO 14443 perfectly meets mid-end segment needs including security and cost effectiveness. It features a non-volatile memory, a high speed triple -DES data encryption co-processor, a flexible memory organization structure, a mutual 3-pass authentication technique together with a true random number generator and an anti-tear mechanism to guarantee data integrity during contactless transactions.

The S853 is designed for use with the multiNODE-1000, multiNODE-2 SMD, multiNODE-2000 and multiNODE-2100 controllers.

Unlike Wiegand interface readers, the S853 uses secure, bi-directional, Pseudo-Random supervised communications between the multiNODE controllers and their associated readers. Both the reader and cable are supervised, and an alarm will sound if the reader is tampered with or communications lost.

A distance from any of the multiNODE controllers to the S853 reader of up to 3000ft (1000m) can also be achieved.

The S853 includes an LCD for verification of card accepted and of card rejected. This LCD is also used for card PIN number prompt and for verification of command functions initiated through the reader keypad. There is also an integrated buzzer for confirmation of card read and local door pre-held warning alarms. This integrated buzzer is also used to give audible feedback for positive confirmation of key press for card PIN number entry.



S853 Common Access Card (CAC) Reader

AMAG TECHNOLOGY

COMMON ACCESS CARD READERS

Key Features

- Fully supports the Common Access Card (CAC)
- GSC-IS V2.1 compliant
- ISO 14443 1-4 compliant
- ISO 7816 compliant
- SEIWG
- Can offer Triple Technology – Contact / Contactless / Magstripe
- Can also read Philips MIFARE® Cards
- Typical read range of 0.5-1.2" (10-30mm)
- Secure, bi-directional, Pseudo-Random supervised communications
- Integrated Door Pre-held warning buzzer is included
- Audible feedback provides positive confirmation of card read and key press
- An LCD is included for verification of card accepted and card rejected
- The LCD is also used for card PIN number prompt
- Programmable Command functions through the reader keypad

General Specifications

Model Types

S853 Common Access Card (CAC) reader with keypad
Available in Ash Gray color

Power Requirements

Nominal 12VDC (9-14V)

Maximum current consumption 0.16 Amp

Dimensions Inches (mm)

Width = 3.8" (97mm)

Height = 4.9" (125mm)

Depth = 1.8" (45mm)

Operating Environment

-4°F to +158°F (-20°C to +70°C)

15% to 90% Humidity, non condensing

Optional weather kit recommended when mounting outside

Communicating Distances

multiNODE-2 SMD / multiNODE-2000 / multiNODE-2100 controllers to S853 (current loop) = 3000ft / 1000m

Approvals

Radio regulatory approvals to EN 300 330

EMC Type Testing to ETS 300 330

EN 60950:2000

EN 50357

Access control product testing to EN 50133-1:1997

FCC CFR47 Part 15 Subpart c

AMAG TECHNOLOGY

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