

ACTpro mifare®

Product Overview

Smart Cards are cards with memory on board that can be read or written to. A contactless smart card does not need to be in direct contact with a reader. Instead, it communicates using wireless technology. mifare is a 13.56MHz contactless technology that allows one card to be used for many applications. ACT has developed a range of mifare readers, compatible with the ACTpro family of access control units. The ACTpro mifare readers are configurable to read either a mifare card serial number or from a sector on the mifare card.

Main Features

- Choice of mifare proximity only or pin and mifare proximity
- Reader configurable as a Serial or Sector Reader
- Compatible with ACTpro mifare ISO cards and Fobs
- Sector reader operation configurable for non-ACT cards and Fobs via programming card
- Selectable Clock and Data or 37-bit Wiegand Output
- Built-in Buzzer
- 4 Colour LED
- Surface or flush mount (mounting directly on to standard electrical box)
- Robust Polycarbonate housing
- Indoor or outdoor installation (IP67)
- Operates between -20°C and +50°C
- +8V to +16V DC operation

Installation / Specification Guidelines

- May be installed in exposed outdoor conditions (IP67)
- May be a maximum of 100m from the controller when powered from +12V
- Use 8 core screened cable -Belden 9504 or equivalent

mifare Card Readers

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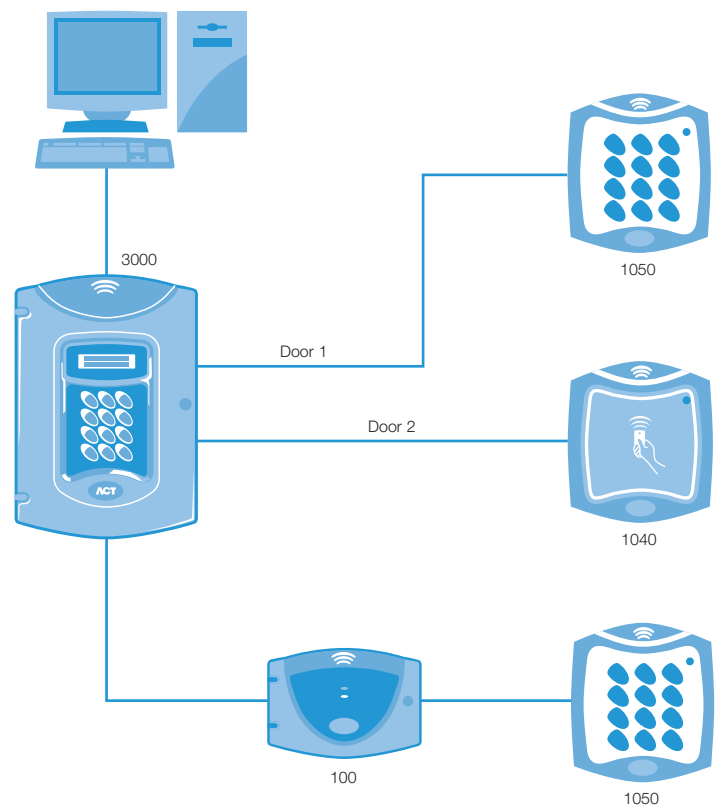
Access Control Technology



ACTpro mifare 1040



ACTpro mifare 1050



ACTpro mifare Schematic

ACTpro mifare®

Product Specification

Operating Voltage:	8 - 16 Volts DC
Current Consumption:	Typ 70mA Peak 140mA
Weight:	170 grams
Operating Temperature:	-20 to +50 C
Dimensions (HxWxD):	110 x 100 x 35 mm
Mounting:	Surface or Flush
Installation:	Indoor/Outdoor (IP67)
Cabling:	Connector blocks

mifare Card Readers

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Access Control Technology



ACTpro mifare 1040
Proximity Only



ACTpro mifare 1050
Proximity & Keypad

Cabling Chart

From	To	Cable	Restriction
Reader	Controller	8 core screened Belden 9504 or equivalent	100m at +12volts

Ordering Information

Proximity Serial / Sector Reader	ACTpro mifare 1040
Pin & Proximity Serial / Sector Reader	ACTpro mifare 1050
mifare 1K Batch ISO Card	ACTpro mifare 1KB ISO Card
mifare 1K Batch Fob	ACTpro mifare 1KB Fob
USB mifare Reader	ACTpro mifare USB Reader

Specification

ACTpro mifare 1KB Fob

Mifare S50 1k fob with a maximum read range of 3 centimetres

ACTpro mifare 1KB ISO Card

Suitable for ID printing with Mifare S50 with a maximum read range of 5 centimetres

ACTpro mifare USB Reader

The ACTpro mifare USB reader may be used to enrol mifare cardholders on ACT Win pro* software and is also capable of creating programming cards for sites that use non-ACT mifare cards.

*requires ACTWin pro 2.3 or later

Comparison chart

Feature	ACTpro mifare 1040	ACTpro mifare 1050
Proximity	Yes	Yes
Keypad	No	Yes
Selectable Serial / Sector Reader	Yes	Yes
mifare® ISO 14443A Compatible	Yes	Yes
8 - 16 V DC operation	Yes	Yes
Connector Block	Yes	Yes
IP rating	IP67	IP67
Potted Electronics	Yes	Yes

Reader Compatibility

The ACTpro mifare readers support the mifare classic protocol and are compatible with any card that uses the following IC:

PHILIPS MF1 S50
PHILIPS MF1 S70
PHILIPS MF0ICU10*
PHILIPS MF0ICU11*
INFINEON SLE 66R35

*serial number only



ACTpro mifare Fob



ACTpro mifare ISO card



ACTpro mifare USB Reader