SOFTWARE HOUSE

A Tyco International Company

Multi-Technology Reader with Indala Support (SWH-4130)

Features That Make a Difference:

- Triple-receiver design allows simultaneous reading of HID® proximity cards, Indala® proximity cards, and contactless smart cards

- Reads more than 10 different types and formats of proximity cards and contactless smart cards, including most common Indala formats

- Download new functionality or enhancements for a future-proof solution

- Encryption and custom keys for secure transmission of data

- Mount on metal with optional isolation spacer

- Indoor/outdoor use

- Built-in tamper switch provides secure installation

- Plug-in screw terminals reduce installation time

- ISO compliant - 14443A, 14443B, 15693

- Lifetime warranty

Software House Multi-Technology Reader with Indala Support offers a unique, versatile single reader solution for reading both HID and Indala proximity cards simultaneously, while also reading multiple 13.56 MHz smart card technologies – including MIFARE® encrypted sectors – all with one reader. This powerful reader enables you to mix card populations of HID and Indala proximity cards without needing two separate readers, while also allowing a smooth, cost-effective transition to smart cards over time.

The reader continuously cycles between low and high frequency signals to read the presented card. Readers may be field-configured to enable or disable selected card formats and technologies.

The Multi-Technology Reader with Indala Support can be updated at any time with flash firmware. This saves significant time and money by allowing you to simply flash new card protocols or formats directly to the reader. The reader is configurable to read a specific encrypted MIFARE sector and block using standard or custom MIFARE read keys.

Important features such as a built-in tamper switch, two-piece connectors, and isolation spacers help reduce installation time. Coupled with robust environmental ratings and a lifetime warranty, the Software House Multi-Technology Reader with Indala Support is the clear choice for companies looking for a powerful, cost-effective way to use multiple card technologies.

Multi-Technology Reader with Indala Support

Physical

Dimensions (H x W x D). . . . . 111 x 84 x 28 mm
(4.37 x 3.31 x 1.10 in)
Form Factor. . . . . Single-gang mounting
Environmental (Interior/Exterior)-35° to 67°C (-31° to 151°F)
0 to 100% relative humidity
Index of Protection IP65
Weight. . . . . 0.34 Kg (12 oz.)
Color . . . . Black
Accessories. . . . . Optional isolation spacer

Electrical

Power Requirements . . . . 9.6 to 16 VDC, 150mA maximum current
Wiring Terminations . . . . Plug-in screw terminals
Wiring Details
Pin 1 . . . . External beeper control
Pin 2 . . . . Ground
Pin 3 . . . . Power (8 to 16VDC)
Pin 4 . . . . D1 Wiegand
Pin 5 . . . . D0 Wiegand
Pin 6 . . . . Reserved for future use
Pin 7 . . . . External green LED control
Pin 8 . . . . External red LED control
Pin 9 . . . . RS485/A – used for flash upgrade
Pin 10 . . . . RS485/B – used for flash upgrade
Pin 11 . . . . Tamper (normally closed)
Pin 12 . . . . Tamper (normally closed)

Cable Recommendations . . . 22 AWG [60 m (200 ft) max] or 18
AWG [150 m (500 ft) max],   stranded
Operational
Read Range . . . . Up to 102 mm (4 in), depending on technology
of card
Read Time. . . . . Technology-dependent
(typically < 300 msec)

Regulatory

FCC Part 15 Class C
CE
RoHS
WEEE
ISO 14443A, 14443B, 15693

Card Technology and Format Information

Card Technologies Supported

HID proximity
Indala proximity
MIFARE serial number
DESFire® serial number
ISO 14443A, 14443B, and 15693 serial number
iCLASS® serial number
MIFARE sector read

Communications

Wiegand data stream to controller
Flashable via local RS-485

Proximity Configuration Using Program Card

Enable/disable specific proximity technology
Indala formats supported:
Wiegand 26-bit
ACC 37-bit (default)
SWH 37-bit
(Note: only one Indala format is supported at any one time)
HID formats supported:
Wiegand 26-bit
Corporate 1000 35-bit
SWH 37-bit
Pass-through HID formats

Smart Card Configuration Using Program Card

Pass-through output (128 bits, entire MIFARE block)
Fixed length output (26-bit, 32-bit, 35-bit, 37-bit, 64-bit)
MIFARE sector
Select a sector (0-15); select a block (0-3)
Customize encryption keys
Specify data format (number of bits output)

Ordering Information

Model Numbers	Description
SWH-4130	Multi-Technology Reader with Indala Support, single-gang, black, ACC 37-bit format
SWH-4130-G	Multi-Technology Reader with Indala Support, single-gang, gray, ACC 37-bit format
SWH-4130-26B	Multi-Technology Reader with Indala Support, single-gang, black, 26-bit format
SWH-4130-G-26B	Multi-Technology Reader with Indala Support, single-gang, gray, 26-bit format
SWH-4130-37B	Multi-Technology Reader with Indala Support, single-gang, black, SWH 37-bit format
SWH-4130-G-37B	Multi-Technology Reader with Indala Support, single-gang, gray, SWH 37-bit format

Related Products

RM Readers   iSTAR Edge   iSTAR Pro

Approvals

RoHS 2002/95/EC   CE