

Sirius iX10

Built-in Card Reader

About

The Sirius iX10 is the smallest card reader of the iX family. The reader is compatible with various passes and tags and is ready to use for Mobile Access (BLE). This reader is designed for built-in situations, such as electrical junction boxes and flush-mounted boxes. You use the iX10 reader in places where other iX family readers are just too big. The reader comes with a basic housing that prevents the electronics from being damaged during installation.

In addition, the card reader is ideal for placement in an OD5 or OD10 housing of Commend intercom. If the card reader does not fit, parts of the antenna plate can be altered so that the reader can be installed in any environment.

Reader Technologies

The iX10 supports low-security applications for reading both MIFARE Classic and ISO14443 Unique Identification Number (UID). When optimal security is required, the iX10 card reader supports MIFARE DESfire 0.6, EV1, EV2 and EV3. The reader is an extension of the Sirius iX reader family and is also equipped with Bluetooth so it can be used for mobile access.

Highlights

RfID reader for MIFARE/DESFIRE cards

Mobile Access compatible (BLE)

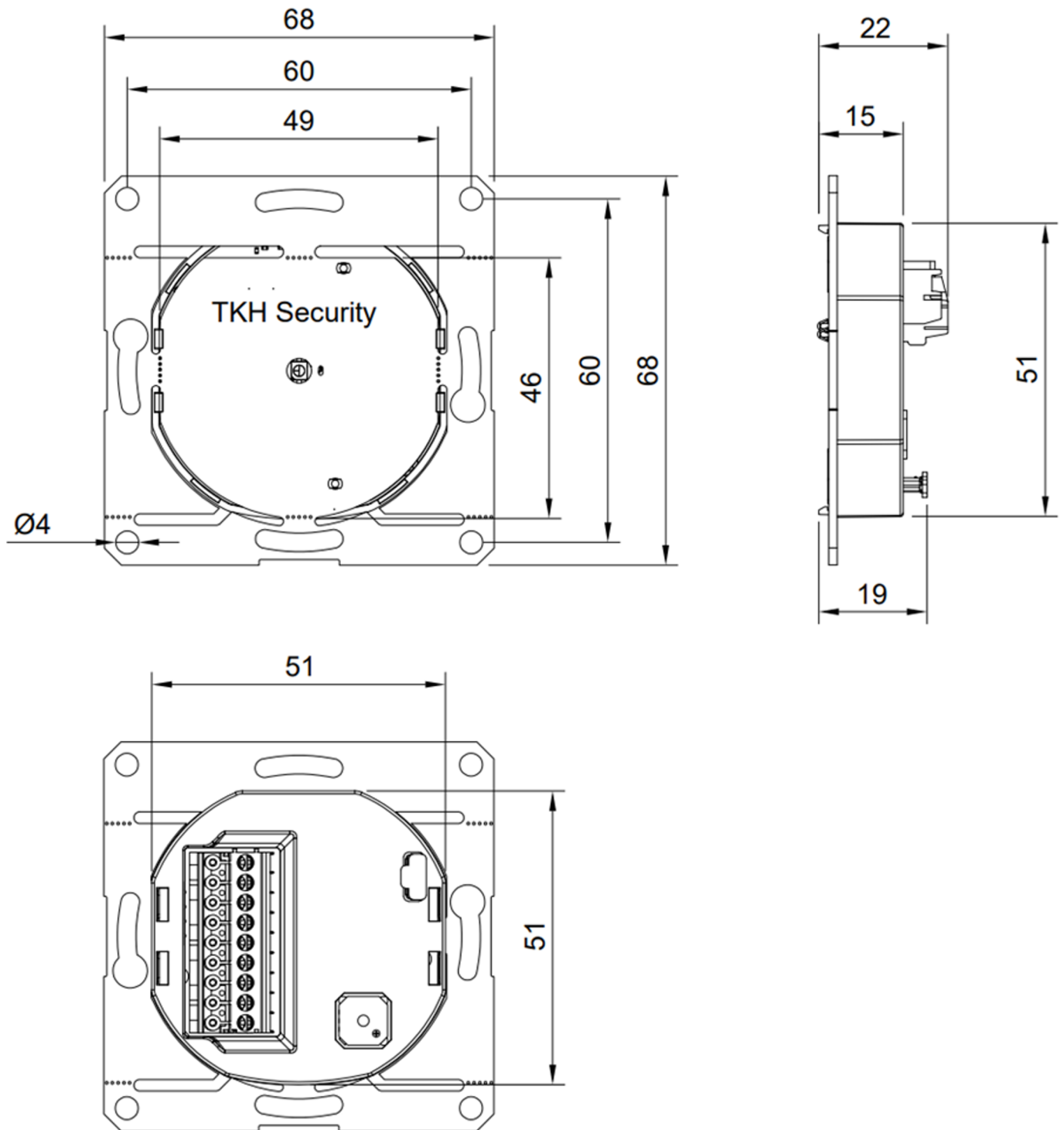
Designed for Electrical junction boxes

Movement detection tamper

Ultra-fast response time

Easy installation with removable connector

Measurements



Specifications

General

Model Name	iX10
Base Part number	IPR-iX10

Power

Supply voltage	5 ... 28VDC (max 2W)
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Housing and dimensions

Color	Black
Full size with breakout tabs	68 × 68 × 22 mm
Protective cap size	51 × 51 × 15 mm
PCB only size	49 × 49 × 22 mm

Environment

IP rating	N/A (depending on enclosure) If the OD5 housing is used, the IP is rated IP65 (EN 60529)
Operating temperature	-40 ... 85°C
Storage temperature	-40 ... 85°C (industrial grade)
Operating humid	5 - 95% relative humidity, non-condensing

Installation

Location	The iX10 is intended for installation in a housing (enclosure). For proper operation, the reader must be installed behind a panel of 9mm (Plexi) glass.
Minimum Distance	20 cm between iX10's for rfid 40 cm between iX10's for Mobile access

Interface

Type	Auto select, only one interface at a time
Wiegand	Simplex (read only), cable length up to 120 meters
Clock/Data	Simplex (read only), cable length up to 50 meters
RS485	Half duplex, cable length up to 600 meters (115k2)
Compatibility	Compatible with: TKH Orion, Orbit and ApolloN. Not compatible with Apollo and Polyx

RdID cards

Frequency	13,56MHz
Standard	ISO14443-A
Type	MIFARE Classic cards, MIFARE DESFire 0.6, EV1, EV2 and EV3 cards The iX10 is compatible with (keyring) tags. MIFARE DESFire 0.6 and EV1 have a reduced distance.
Maximum distance (normal operation 70pF)	MIFARE classic card: up to 70mm MIFARE DESFire EV1 card: up to 30mm MIFARE DESFire EV2/ EV3 card: up to 50mm MIFARE DESFire EV1 tag: up to 22 mm MIFARE DESFire EV2/ EV3 tag: up to 35mm

Mobile Access	
Frequency	2,4 GHz band
Standard	Bluetooth Low Energy (BLE)
Type	TKH Security Mobile Access
Distance	0...20 cm (default)

Main header	
Type	9 pin removable screw header
Input: 'Drive LED' Input: 'Drive Buzzer'	With internal pull-up (switch to GND, 3.3V, <1mA, overvoltage protected)
Output:	
'Tamper is active' Clock/data or Wiegand	Open drain without pull-up (max 5 mA, overvoltage protected to VCC)

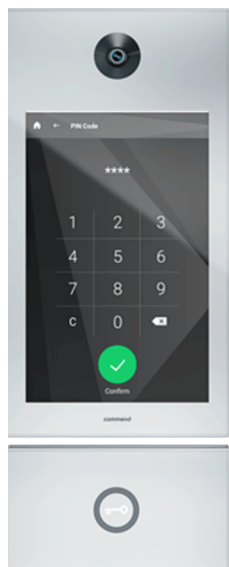
User interface	
Optic	RGB power LED
Sound	Multi tone buzzer, 85dB at 1 m
Additional features	
Tamper	Accelerometer sensor

Certification	
Electric	EMC, LVD
Radio	RED
BLE	Bluetooth certified

Variants/order code	
IPR-iX10-MDF	MIFARE DESFire coded
IPR-iX10-UID	UID card
IPR-iX10-PRM	Programmable

* For use with EV1 tags in OD5 housing, a mounting instruction is provided.

Related Products



OD10 VERSION



ID5/OD5 VERSION