



**iF**

Series

ANSI Grade 1

**Touchless Smart Lock**

**Mobile Biometrics Access Control**

# iF-R Readers

**klacci**  
life unlocked.

[www.klacci.com](http://www.klacci.com)

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# iF-R Readers



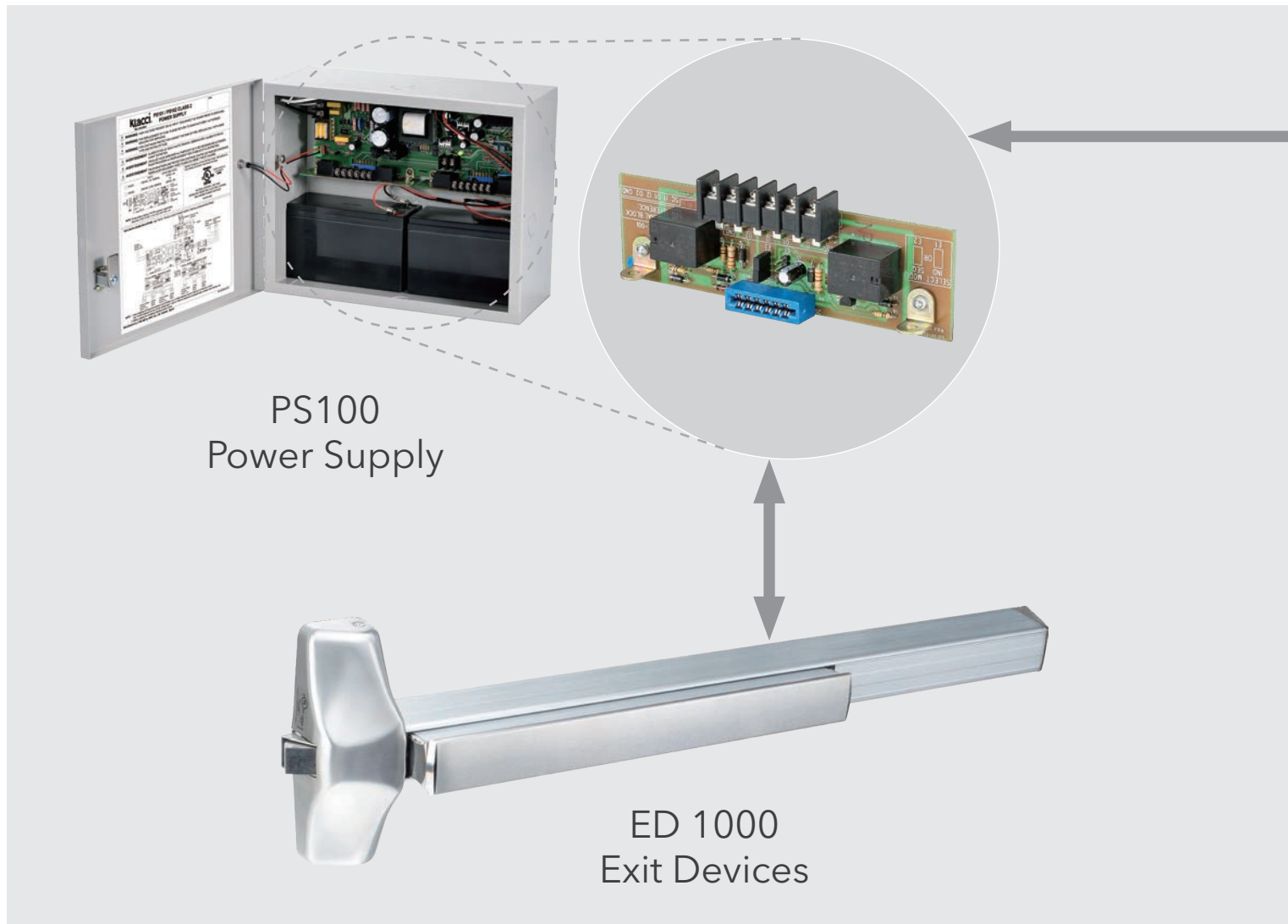
Access Control System can be this little. The iF-R Reader extends the applicability of iF Series Touchless Smart Lock more and further.

Whether it is the existing application restricting a new installation, or the simply need to upgrade the door lock into a high security touchless solution opening, the iF-R Reader is the best choice. Comes in full suit of functions as the iF Series Touchless Smart Lock, the iF-R Reader can be easily connected to most of the existing door hardware with quick input/output terminal circuits.



# iF-R Readers

## Applications



Door Operators

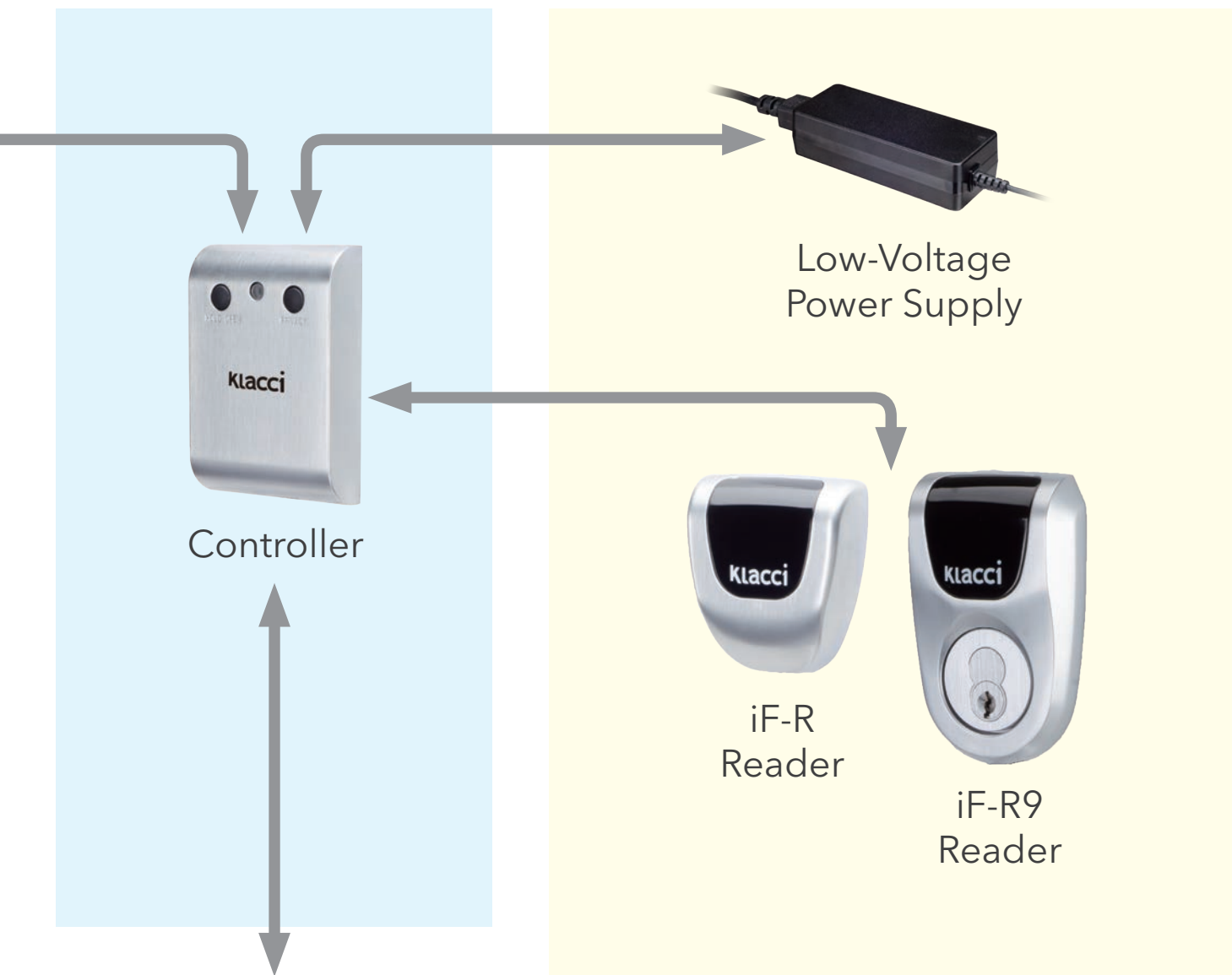


Electric Strikes



Electric Bolt





Exit Devices



Mortise Locks



Cylindrical Locks

# iF-R Readers



## iF-R1 Readers For Cylindrical Lock

### **Innovative Design with Substantial Hardware**

The iF-R1 Readers For Cylindrical Lock pioneers the new design of Klaccki, which is recognizable by its clear reduced lines. The reader and controller unit are completely detached from the lockset to allow total freedom for installation. The iF-R1 Reader would seamlessly fits into any design language while fulfils most demands in touchless access control.

It is not only suitable for access control in hospitality, but also in commercial buildings access management. Enjoy a more reliable, safe and convenient new experience.

## iF-R9 Readers For Mortise Lock

### **Aesthetically Appealing Design and Beyond**

The iF-R9 Series Readers For Mortise Lock is installed into door. The hidden installation not only looks pleasant but also prevents disruptive damage and invasion from the outside. Nevertheless, the strong bolt can also sustains abnormal impairment.



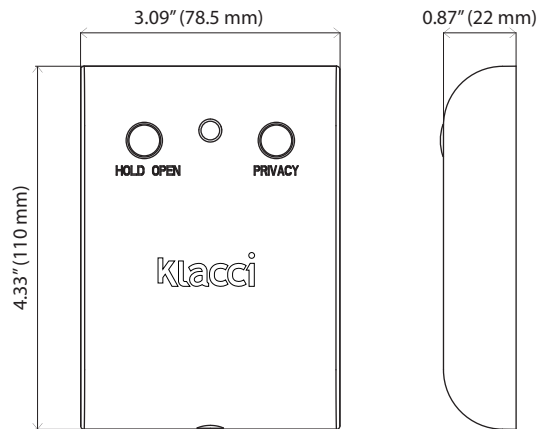
# Electronic Specifications

	Battery Type	Low Voltage Type
Required Power/ Control Mode	<ul style="list-style-type: none"> <li>Battery Life: Estimated 1 year or 5000 cycles with 4 AA alkaline batteries.</li> </ul>	<ul style="list-style-type: none"> <li>Power Input: 12 or 24 VDC.</li> <li>2 Types of Output Options.</li> <li>Energized Circuit (Output = Input; Current: MAX 1.5A).</li> <li>Electrical Circuit (COM, NO/NC).</li> </ul>
No. Users	<ul style="list-style-type: none"> <li>Unlimited, dependent on smartphone's memory capacity.</li> </ul>	
Management	<ul style="list-style-type: none"> <li>Can assign secondary administrators for unlimited or 3-5 users using the user management interface.</li> </ul>	
Credential Verification Time	<ul style="list-style-type: none"> <li>&lt;1s (without facial recognition).</li> <li>Note: Depending on the smartphone used, the actual connectivity during operation may differ.</li> </ul>	
Visual Communications	<ul style="list-style-type: none"> <li>LED.</li> </ul>	
Communication Standards	<ul style="list-style-type: none"> <li>Wifi.</li> <li>3G/4G/5G.</li> <li>Bluetooth 4.0.</li> </ul>	
Encryption	<ul style="list-style-type: none"> <li>AES 256-bit.</li> </ul>	
Communication Range	<ul style="list-style-type: none"> <li>2m.</li> </ul>	
Wake-Up on Radio	<ul style="list-style-type: none"> <li>1s by Bluetooth connection or Inside button.</li> </ul>	
Data Rate	<ul style="list-style-type: none"> <li>&lt;100kb via Wifi, 3G/4G/5G.</li> </ul>	
Connectivity Options	<ul style="list-style-type: none"> <li>Web portal management platform (manage authorization, authorization updates, biometric/non-biometric requirement).</li> <li>Wifi access point (real-time communication).</li> <li>Telecom signal (3G/4G/5G) (real-time communication).</li> </ul>	
Non-Biometric/ Biometric Recognition	<ul style="list-style-type: none"> <li>Passcode, fingerprint, facial recognition, IRIS recognition (future feature), voice recognition (future feature).</li> </ul>	
Operating Temperature	<ul style="list-style-type: none"> <li>0~49 °C.</li> </ul>	
Operating Humidity	<ul style="list-style-type: none"> <li>85%.</li> </ul>	
Certification/Compliance	<ul style="list-style-type: none"> <li>ANSI/BHMA A156.25</li> <li>UL294 for Access Control System Units.</li> <li>CAN/ULC-60839 for Electronic Access Control Systems.</li> <li>FCC Part 15</li> <li>Industry Canada (IC) Certification.</li> </ul>	
Available Status Signals	<ul style="list-style-type: none"> <li>Request-to-exit.</li> <li>Battery status/low battery alert.</li> <li>HOLD OPEN mode (constantly unlocked until reset back to standard mode).</li> <li>PRIVACY mode (all users' access denied until reset back to standard mode or when turning inside lever; administrator can access normally).</li> <li>Communication status.</li> </ul>	
Flexible Solutions	<ul style="list-style-type: none"> <li>Smartphone.</li> <li>Tablet.</li> <li>Web portal via PC.</li> </ul>	
Mobile App	<ul style="list-style-type: none"> <li>Add and configure locks.</li> <li>Add new users and enroll credentials.</li> <li>View users and alerts.</li> <li>Perform lock diagnostics.</li> <li>Requirements: IOS 9 or later Android 4.4 or later.</li> <li>Standard Authentication: Passcode OR the user mobile device's biometric recognition function.</li> <li>Dual Authentication: The standard authentication AND the Smartlink App's facial recognition.</li> <li>User feedback.</li> </ul>	
Web Portal	<ul style="list-style-type: none"> <li>Configure locks.</li> <li>Add new users and enroll credentials.</li> <li>View audits and alerts.</li> <li>Setup facial recognition requirement for access.</li> <li>Preserve for security camera/ online alerts connection port.</li> </ul>	<ul style="list-style-type: none"> <li>Requirements:               <ul style="list-style-type: none"> <li>» IE 11.1 or later.</li> <li>» Chrome 38.0 or later.</li> <li>» Firefox 33.0 or later.</li> <li>» Safari for Mac OS X10 or later.</li> <li>» Mobile/tablet browser for Android and iOS.</li> </ul> </li> </ul>

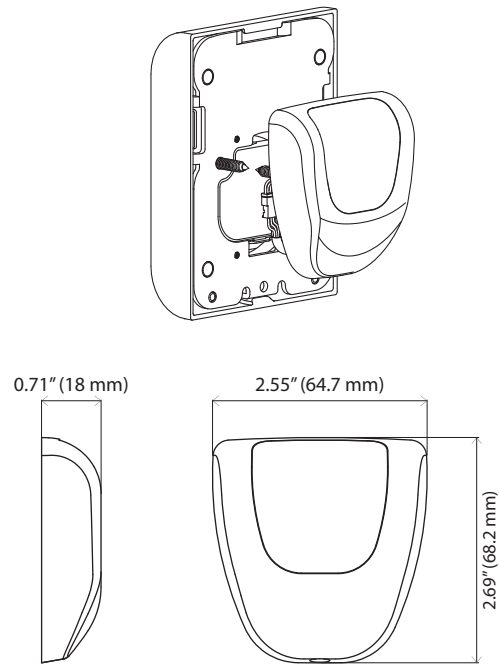


# Mechanical Specifications

## iF-R Readers



Inside View



Outside View

## Control Module Introduction

### Control Terminal Socket

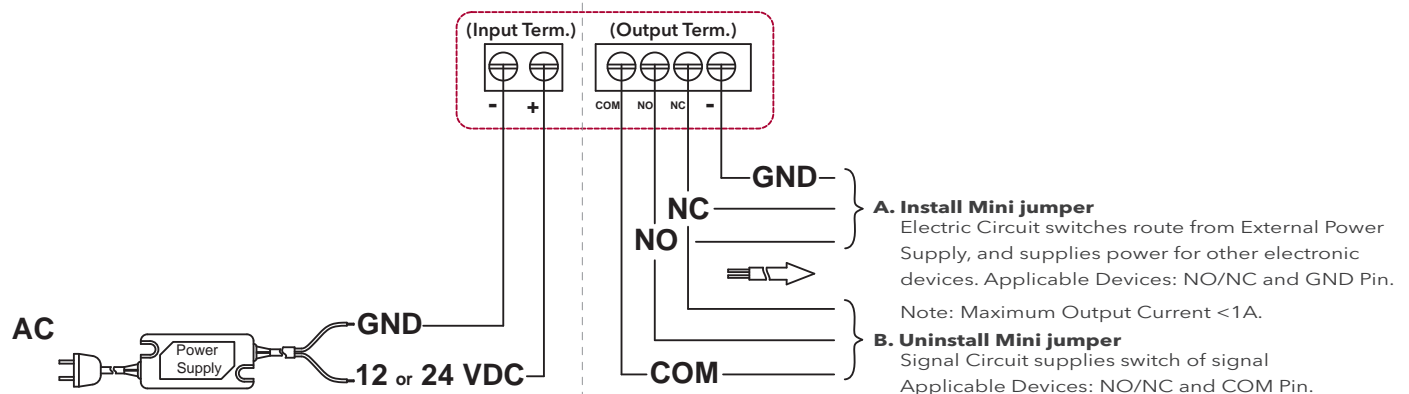
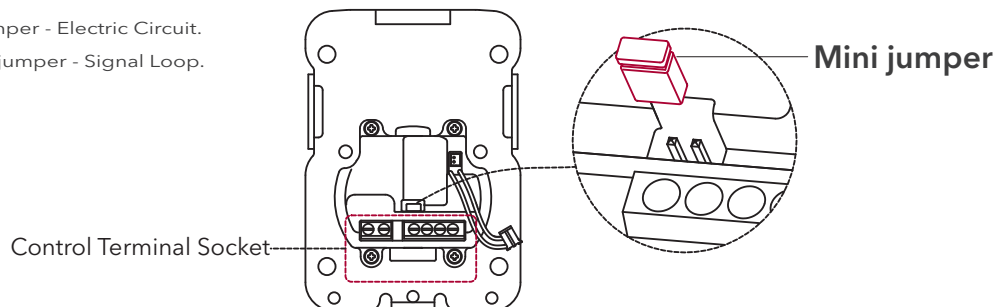
#### Input Terminal Socket

External Power Supply Input 12 or 24 VDC.

#### Output Terminal Socket

Installed Mini jumper - Electric Circuit.

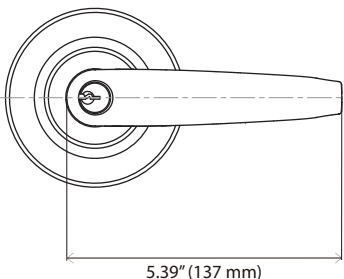
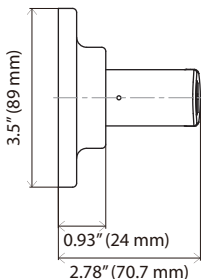
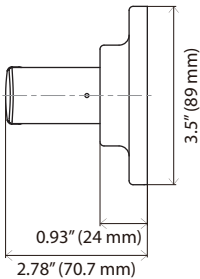
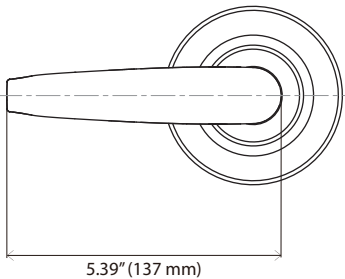
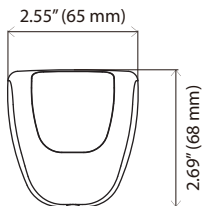
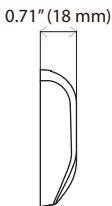
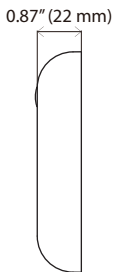
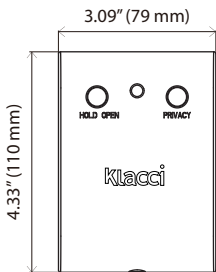
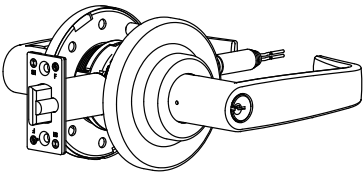
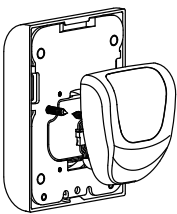
Uninstalled Mini jumper - Signal Loop.



Power Supply Input Terminal

Output to Device Terminal

# iF-R1 Readers For Cylindrical Lock

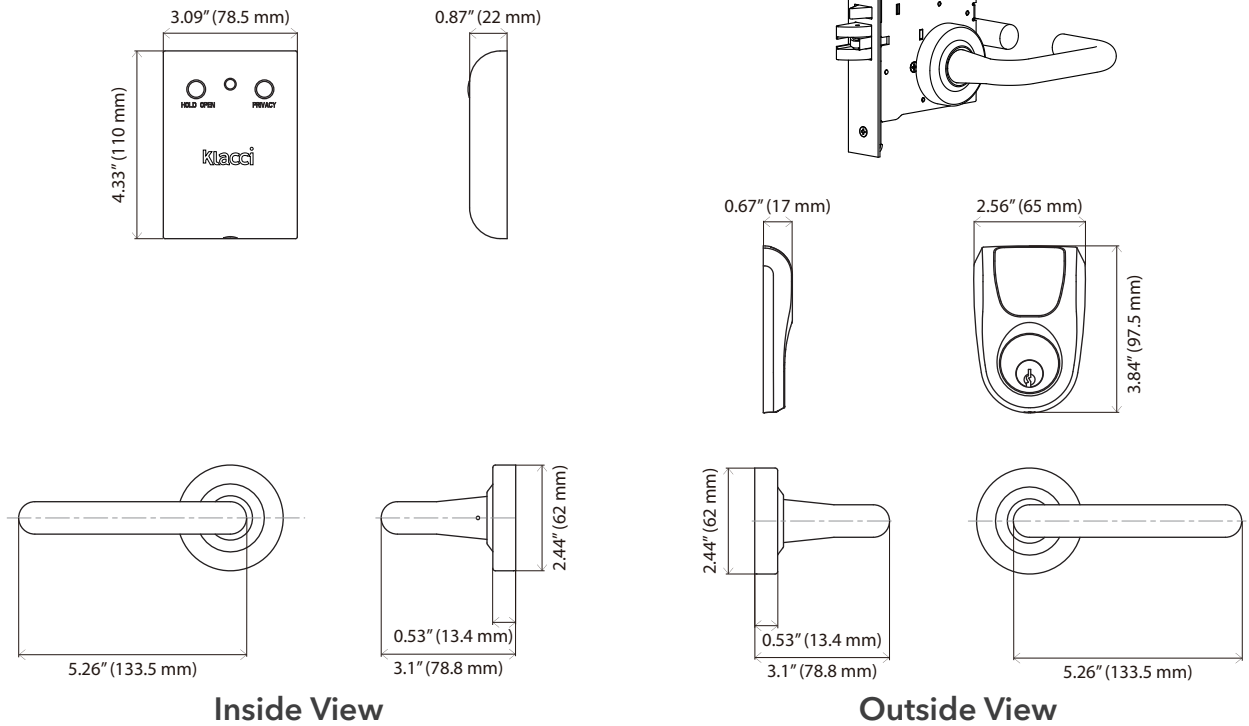


Inside View

Outside View

Work with	<ul style="list-style-type: none"> <li>LF05(C)EU/LF05(C)EL.</li> </ul>
Certification/Compliance	<ul style="list-style-type: none"> <li>UL listed for "A" label (3 hours) single swinging door (4'x8').</li> <li>Conforms to ANSI/BHMA A156.2 Grade 1 Cylindrical Lock standard.</li> <li>UL10C Standard for positive pressure fire tests of door assemblies.</li> </ul>
Doors & Preparations	<ul style="list-style-type: none"> <li>ANSI A115.2, through bolted installation.</li> </ul>
Backset	<ul style="list-style-type: none"> <li>2-3/4" (70mm) standard, 2-3/8" (60mm), 3-3/4" (95mm) and 5" (127mm) optional.</li> </ul>
Door Thickness	<ul style="list-style-type: none"> <li>Standard 1-1/2" (38mm) ~ 2" (50.8mm) wood or metal door.</li> <li>Please consult factory for thicker door availabilities.</li> </ul>
Latchbolt	<ul style="list-style-type: none"> <li>1/2" (12.5mm) throw, UL listed, faceplate self-adjusted, 3/4" (19mm) throw fire door deadlatch available.</li> </ul>
Handing	<ul style="list-style-type: none"> <li>Non-handed.</li> </ul>
Strike	<ul style="list-style-type: none"> <li>ANSI strike standard, T-strike or Full lip strike optional.</li> </ul>
Cylinder	<ul style="list-style-type: none"> <li>6-pin "C" keyway standard, nickel silver keys, compatible with Schlage® original cylinder.</li> </ul>
I/C Core	<ul style="list-style-type: none"> <li>SFIC: 6 or 7-pin, compatible with Best® and Falcon® original cylinder.</li> <li>FSIC: 6-pin, compatible with Schlage® original cylinder.</li> </ul>
Trim	<ul style="list-style-type: none"> <li>Solid zinc diecast, concealed screws.</li> </ul>
Master Keying	<ul style="list-style-type: none"> <li>Can be masterkeyed or grand masterkeyed. Construction key systems available.</li> </ul>
Voltage/Current	<ul style="list-style-type: none"> <li>24 VDC, 0.145 Amp.</li> <li>12 VDC, 0.293 Amp.</li> </ul>

# iF-R9 Readers For Mortise Lock



Inside View

Outside View

<b>Work with</b>	<ul style="list-style-type: none"> <li>MS9105/ME9105(Fail Safe).</li> <li>MS9205/ME9505(Fail Secure).</li> </ul>
<b>Certification/Compliance</b>	<ul style="list-style-type: none"> <li>ANSI/BHMA A156.13 Series 1000, Grade 1 operational and security.</li> <li>UL Listed for 3-Hour fire rating.</li> </ul>
<b>Doors &amp; Preparations</b>	<ul style="list-style-type: none"> <li>Conforms to ANSI A115.1, through bolted installation.</li> </ul>
<b>Case Size</b>	<ul style="list-style-type: none"> <li>4-5/16" x 6" x 1" (110mm x 152mm x 25mm).</li> </ul>
<b>Armor Front</b>	<ul style="list-style-type: none"> <li>1-1/4" x 8" x 7/32" (32mm x 203mm x 5mm) Standard, 1-1/16" x 8" x 7/32" (27mm x 203mm x 5mm) optional.</li> </ul>
<b>Backset</b>	<ul style="list-style-type: none"> <li>2-3/4" (70mm) only.</li> </ul>
<b>Door Range</b>	<ul style="list-style-type: none"> <li>1-3/8" (35mm) ~ 2-1/2" (64mm) metal door.</li> <li>1-3/4" (45mm) ~ 2-1/2" (64mm) wood door.</li> </ul>
<b>Beveled Doors</b>	<ul style="list-style-type: none"> <li>Self-adjusting case.</li> </ul>
<b>Spacing</b>	<ul style="list-style-type: none"> <li>3-5/8" (92mm) center cylinder to spindle. 2-7/16" (62mm) center thumbturn to spindle.</li> </ul>
<b>Deadbolt</b>	<ul style="list-style-type: none"> <li>1" (25mm) throw, stainless steel.</li> </ul>
<b>Latchbolt</b>	<ul style="list-style-type: none"> <li>3/4" (19mm) throw, with anti-friction tongue, all stainless steel.</li> </ul>
<b>Deadlocking Bar</b>	<ul style="list-style-type: none"> <li>Non-handed, stainless steel.</li> </ul>
<b>Case Handling</b>	<ul style="list-style-type: none"> <li>Field reversible without removing case.</li> </ul>
<b>Through Bolts</b>	<ul style="list-style-type: none"> <li>Through-bolted trim self-aligned with lock case.</li> </ul>
<b>Strikes</b>	<ul style="list-style-type: none"> <li>Curved lip is non-handed. Custom lip lengths at 1/8" (3mm) increments available.</li> </ul>
<b>Spindles</b>	<ul style="list-style-type: none"> <li>Breakable to prevent the lock case from unlocking or being damaged.</li> </ul>
<b>Cylinder</b>	<ul style="list-style-type: none"> <li>6-pin standard, with two nickel silver keys, "C" keyway. Can be masterkeyed or grand masterkeyed. Construction key system available.</li> </ul>
<b>I/C Core</b>	<ul style="list-style-type: none"> <li>6 or 7-pin. Compatible with Best® and Falcon® original cylinder.</li> </ul>
<b>Fasteners</b>	<ul style="list-style-type: none"> <li>Concealed under the escutcheon.</li> </ul>
<b>Voltage/Current</b>	<ul style="list-style-type: none"> <li>24 VDC, 0.33 Amp.</li> <li>12 VDC, 0.66 Amp.</li> </ul>

# Miscellaneous

## Cylindrical Lock Miscellaneous

### Trims

Made of high-quality zinc alloy and available in wide range of finishes.



D



Q



A

Note: Roses are not included in iF-01 models.

### Knurled Lever

Grooves are machined onto the outer lever for an improved grip. Sensory warning for blindness or other safety applications in hazardous area. To order, add prefix KL.

### Cylinders

Cylinders are precision built to extremely close tolerances and highest standards of accuracy. Made of solid brass, these high-precision 6 or 7 pin cylinders offer high security and reliability. Keys are made of white nickel silver. Interchangeable with other manufacturers' cylinders.



Standard Cylinder

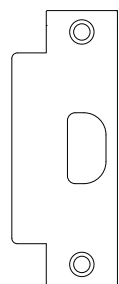


SFIC I/C Core



FSIC I/C Core

### Strikes

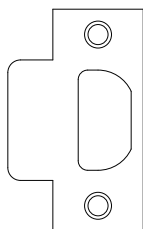
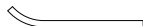


D27

#### ANSI Strike

4-7/8" × 1-1/4" (123.8mm × 31.8mm)

Lip length 1-3/16" (30.2mm)

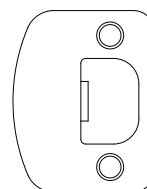


B27

#### T-Strike

2-3/4" × 1-1/8" (70mm × 28.6mm)

Lip length 1-1/8" (28.6mm)



CR27

#### Full Lip 1/4" Radius Corner Strike

2-1/4" × 1-3/4" (57.2mm × 44.5mm)

Lip length 1-3/16" (30.2mm)

# Mortise Lock Miscellaneous

## Trims

We offer a wide selection of sectional and escutcheon trim designs that are not only providing strength and durability, but also portray elegance and style.

In Klacci, durability and beauty go hand by hand. Be assured that you are entrusted with products that meet the strictest standards for safety, security and performance, while bringing an exquisite touch to your decoration with their aesthetically pleasant design.

When ordering, combine the letter representing the type of handle with the number for the type of cylinder. E.g.: K4 stands for K type Lever handle with I/C core cylinder for escutcheon trim.

## Knobs



P



B



T

Note: For iF-R9 only.

## Levers



D



Q



K



EU



MR



KA



AH



HA\*



BF\*

\* Specify door handing.

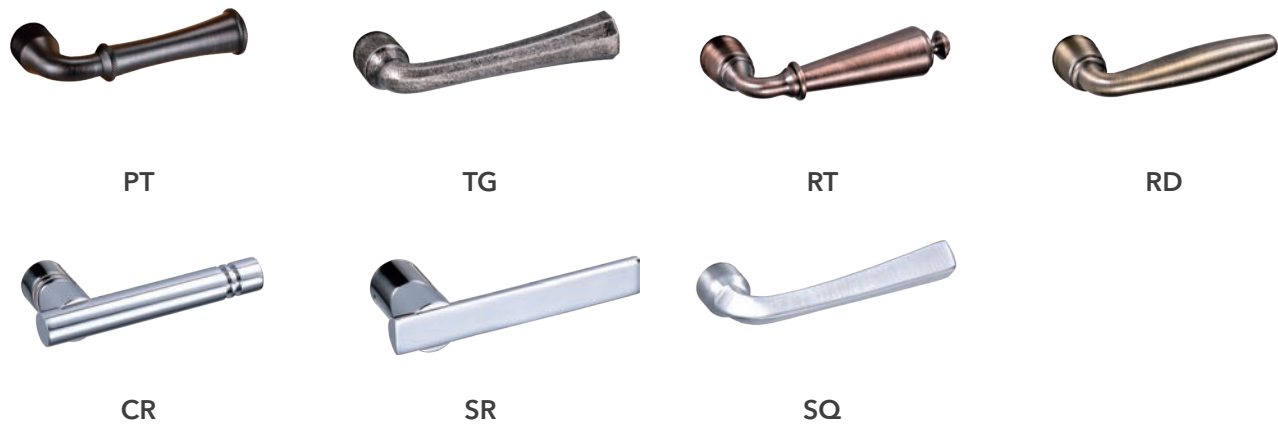
Note: Roses are not included in iF-90/94 models.



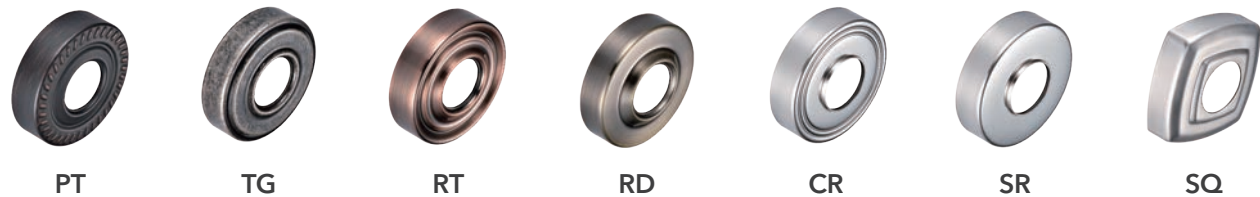
# Decorative Trims

All roses and levers are factory customized to their aesthetic matches. For different rose and lever combination, specify by referring to the names of the rose and lever. E.g.: PT refers to the combination of PT lever and PT rose. PTTG refers to custom selected PT lever with TG rose.

## Levers







## Roses



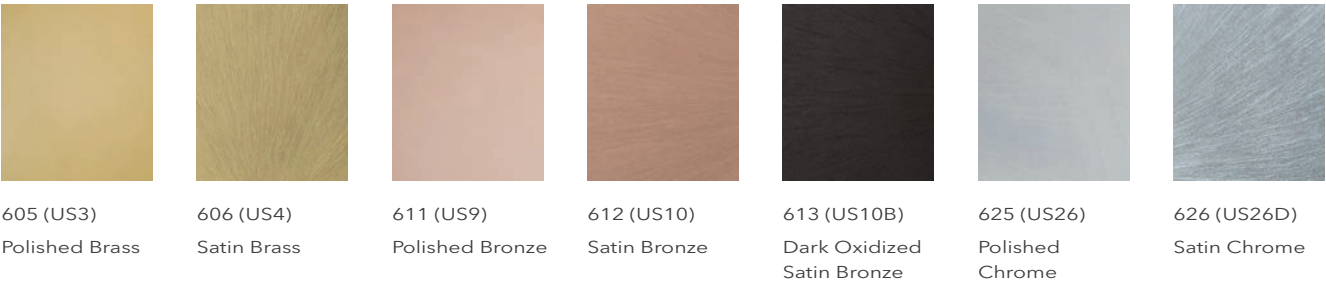
Note: For iF-R9 only.

# Cylinders

	Sectional Type		Escutcheon Type	
				
	Full-face Standard (#1)	Full-face I/C Core (#2)	Full-face Standard (#3)	Full-face I/C Core (#4)
iF-R9 Series Facial Recognition Smart Lock	✓	✓		
iF-90/94 Series Facial Recognition Smart Lock			✓	✓

# Finishes

A wide selection of finishes are available to match with your door and other hardware.





# Safe to Touch

## Why Anti-Microbial?

Every day we touch things that reside germs, bacterial and viruses. In fact, the touching surface of door hardware in high traffic and public use areas fabricates a perfect environment for harmful microbial to cultivate. Infections of the harmful microbial have becoming a rising public safety concern especially in sensitive industries, such as healthcare facilities and educational institutions.

## What is Anti-Microbial?

Studies found that germs, bacterial and viruses can thrive from hours to days on surfaces like stainless steel or any other type of metals. The anti-microbial coating applied on the frequent touch surface of a door hardware which can slow or inhibit the growth of bacteria making the environment safer for everyone. The Anti-Microbial option are offered to a wide range of Klacci products available with different functions and finishes.

## Anti-microbial Coating

An optional anti-microbial coating can be applied. Specially formulated to prevent bacterial growth on door handle surface. Suitable for high-traffic applications in high-sanitary demanding locations. To order, add prefix AC.

Note: The anti-microbial coating is tested in laboratory. It should not be considered as a substitute for proper hand hygiene and other guidelines recommended by The Centers for Disease Control and Prevention (CDC). Klacci makes no representations or guarantees on the effects of the anti-microbial coating when used in different environments.