



KCC
GROUP

Specialist Services:
Buildings Post Covid-19





Solutions for every building

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Maximising hygiene control in your building

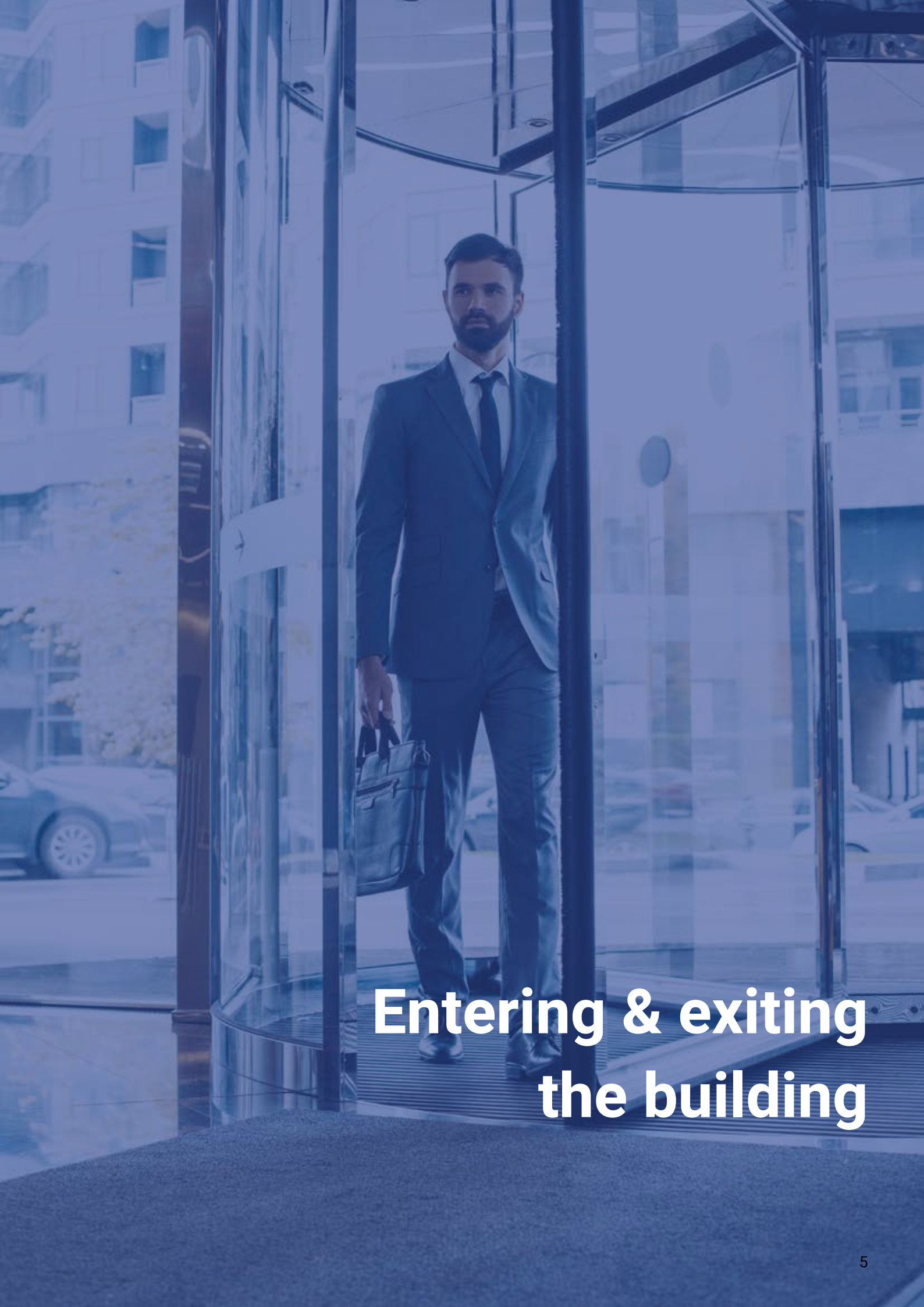
Contactless access has never been more important for all buildings and sectors, not just those typically associated with strict infection control measures such as hospital operating theatres or cleanroom environments.

Internationally, we have never been more aware of what surfaces we touch or come in contact with as we enter and move through buildings. Every door handle and button we come in contact with in our daily lives is akin to shaking hands with hundreds or even thousands of strangers.

We help our clients to realise an access and automation strategy fit for purpose and suited to the specific environment in question. This can include anything from antimicrobial hardware to touch-free sensor activated access control to open or close doors, to hermetically-sealed or cleanroom

doors, to sensor-activation and automation for internal swing doors to minimise the need for user interaction.

We have worked with clients in all environments, including commercial office blocks, manufacturing and accommodation sectors where touch-free sensor access has been used to create a hygienic, barrier-free entrance and access system for employees and visitors like – this is likely to become more and more commonplace across the globe post Covid-19.



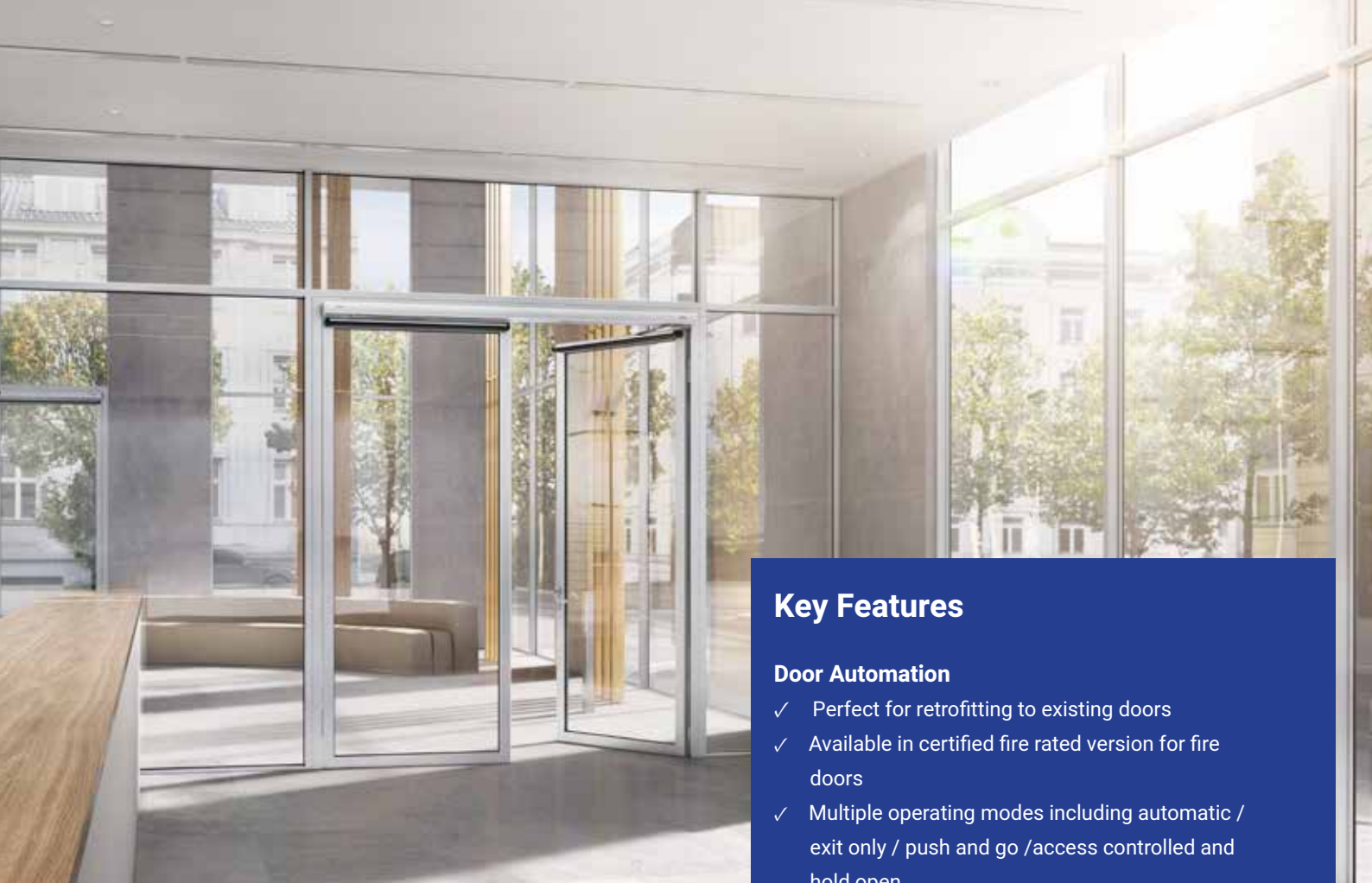
Entering & exiting the building

Door & Access Solutions

Automatic Door Systems



Our range of automatic doors and operators offer a complete barrier free access solution both into and around buildings. Whether external or internal we can offer automatic operators to retrofit to existing doors, upgrading them to automatic doors or we can provide complete new installations including doors both swinging and sliding where the application calls for it. Our systems can work with electric locks and access control to ensure a safe secure system of access is maintained and we can provide accessories such as contactless activation and card readers to complete any installation. We have 1000s of completed installations to date many of which we provide ongoing support to through our service department. All our automatic products and installations conform to the relevant standards including EN 16005.



Automatic Door Systems

Features & Applications

Applications

- ✓ Main entrances to all classes of building
- ✓ Circulation areas allowing barrier free secure access
- ✓ Barrier-free access to washrooms and shared areas
- ✓ Main entrances to commercial, public, education, institutional and residential buildings
- ✓ Circulation areas in buildings to provide Barrier-free secure access
- ✓ Circulation areas in hospitals and health care settings as an aid to infection control protocols

Key Features

Door Automation

- ✓ Perfect for retrofitting to existing doors
- ✓ Available in certified fire rated version for fire doors
- ✓ Multiple operating modes including automatic / exit only / push and go / access controlled and hold open
- ✓ Integrates with existing access control and electric locking and fire alarm systems
- ✓ Aesthetically pleasing, reliable solution for high traffic entrances
- ✓ Suitable for use as fire escape
- ✓ Flexible fixing options allows installation in variety of environments
- ✓ Low energy consumption
- ✓ Long service life





Door & Access Solutions

Entrance Control Systems

As one of the first lines of defence in every building, the entrance, lobby or reception area will be at the forefront of adaptations considered to facilitate a safe return to working environments in our 'new normal'.

We offer a range of products which facilitate and control the flow of people in and out of areas, including turnstiles and speedlanes which when combined with access control or thermal scanning units provide a user-friendly, safe-access point to the building that can perform as part of an effective infection control measure for workers or visitors.



Key Features

Turnstiles with infection control kits

- ✓ Contactless and automated infection control & prevention solution
- ✓ Suitable for both retrofit and new projects
- ✓ Offers single person detection for effective implementation of social distancing measures
- ✓ Sanitiser gel dispenser / mask detection optional
- ✓ Temperature detection synchronises with gate operation, ie. gate won't open if fever is detected
- ✓ User-friendly design
- ✓ Illuminated symbols
- ✓ Allows for totally contactless entry
- ✓ Aesthetically-pleasing design
- ✓ Flexible layout options for all entrance types

Entrance Control Systems

Features & Applications

Applications

- ✓ Commercial Sector
- ✓ Education Sector
- ✓ Retail Sector
- ✓ Healthcare Sector
- ✓ Sports & Leisure Sector
- ✓ Financial Sector
- ✓ Public Sector
- ✓ Transport & Infrastructure Sector

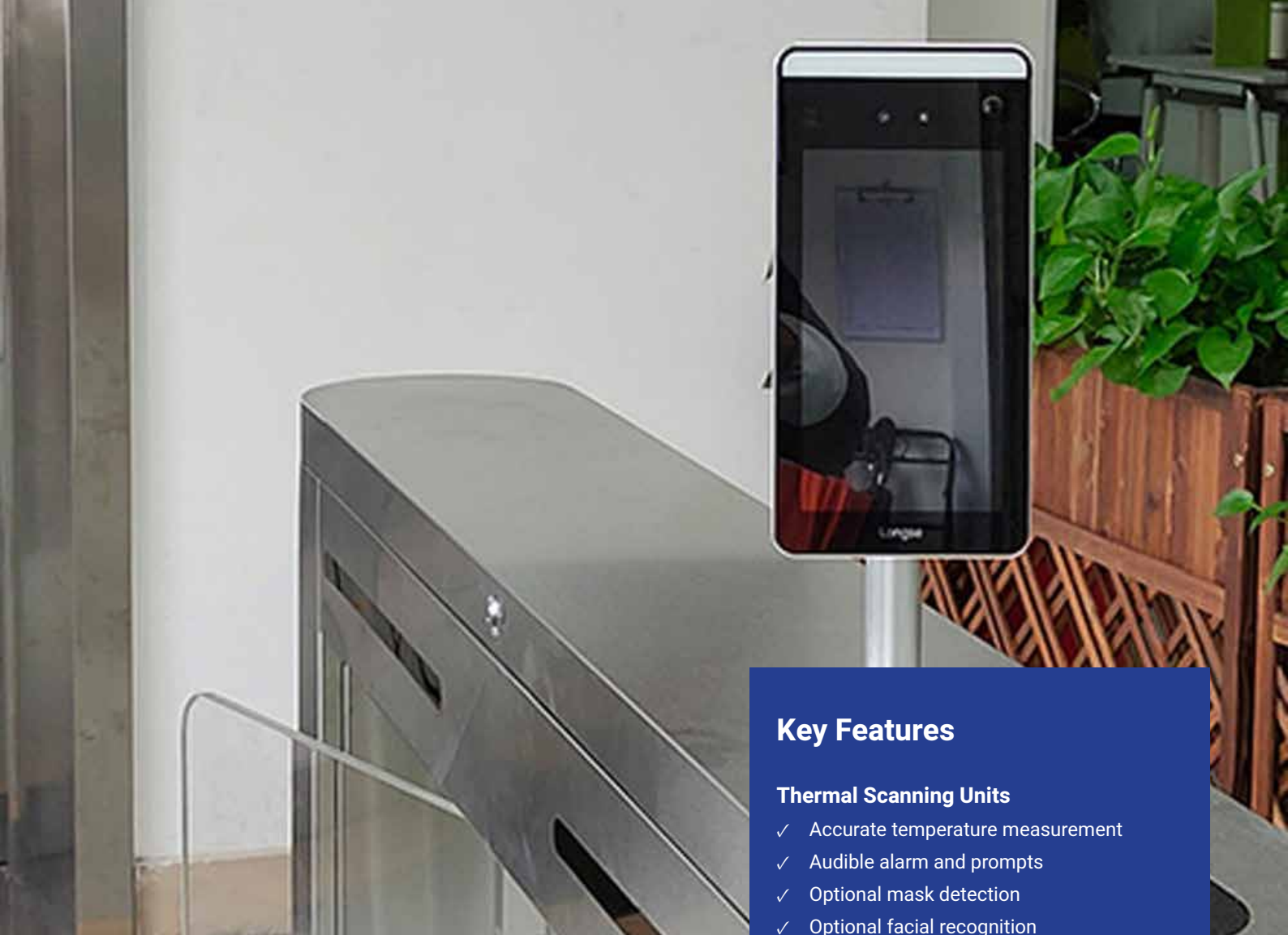


Door & Access Solutions

Thermal Scanning



As one of the first lines of defence in every building, the entrance, lobby or reception area will be at the forefront of adaptations considered to facilitate a safe return to working environments in our 'new normal'. We can offer temperature scanning units with fever detection technology and optional facial recognition, face mask detection and even hand sanitiser dispensers. Easy to install and use, they can be freestanding on their own stand or wall-mounted as per your requirements. We also offer thermal scanning units that can integrate into turnstiles as an effective infection control measure for workers or visitors entering your building.



Key Features

Thermal Scanning Units

- ✓ Accurate temperature measurement
- ✓ Audible alarm and prompts
- ✓ Optional mask detection
- ✓ Optional facial recognition
- ✓ Quick & easy set up
- ✓ Can be wall-mounted or free-standing on its own stand
- ✓ Modern and clean aesthetic

Thermal Scanning Units

Features & Applications

Applications

- ✓ Hospitality Sector
- ✓ Commercial Sector
- ✓ Retail Sector
- ✓ Healthcare Sector
- ✓ Sports & Leisure Sector
- ✓ Financial Sector
- ✓ Public Sector
- ✓ Transport & Infrastructure Sector



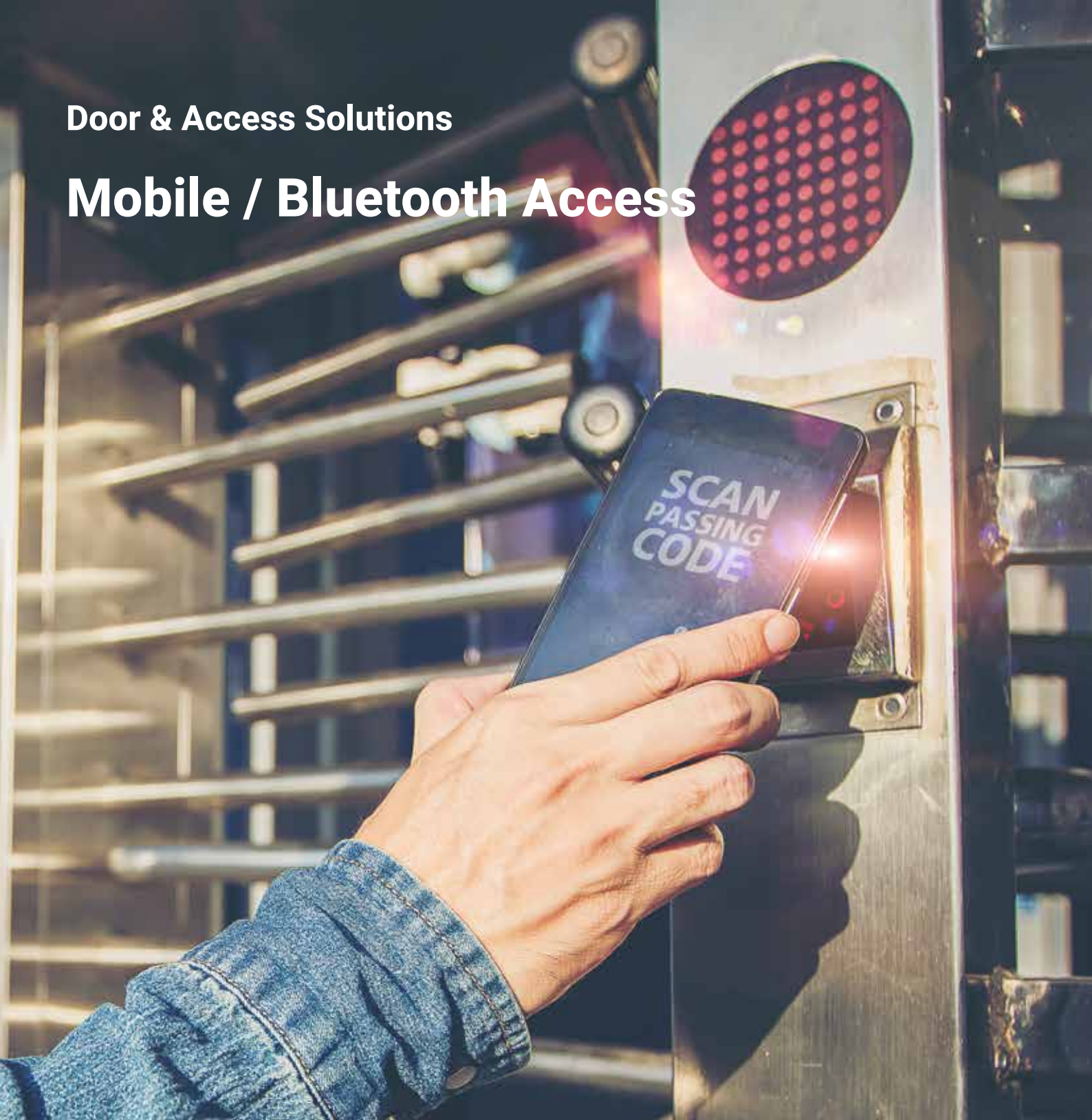




**Moving around
the building**

Door & Access Solutions

Mobile / Bluetooth Access



Our Mobile Access Readers offer a simple secure system which can be used in place of traditional card readers or push buttons to unlock or activate doors, shutters, automatic doors and other powered systems using a smart phone. It can integrate very simply with existing systems allowing easy replacement of standard activation units to provide a secure contactless solution. Mobile access is already widely used in hospitality and staff access control systems and as such is a tried and tested solution.



Key Features

- ✓ Secure encrypted individual authorisation to each user
- ✓ Users can be added and activated remotely once they download an access app
- ✓ Contactless activation at door or access point
- ✓ Activation keys can be set on limited times or uses for security
- ✓ Integrates with all makes of access lock and automatic doors
- ✓ Readers can be set up to read cards or incorporate keypads also
- ✓ Online stand alone and wireless solutions available depending on client requirements
- ✓ Both activation (pulse) and on/off (Switch) modes can be used
- ✓ Simple to retrofit just requires 12/24 volt DC power
- ✓ Very low energy consumption
- ✓ Long service life

Mobile / Bluetooth Access

Features & Applications

Applications

- ✓ Access control door release for electric locks
- ✓ Activation of automatic sliding doors
- ✓ Activation of automatic swing doors
- ✓ Main entrances to commercial, public, education, institutional and residential buildings
- ✓ Circulation areas in buildings to provide hands free activation and door unlocking
- ✓ Hotel entrances and bedroom doors to allow reception-less check-in
- ✓ Circulation areas in hospitals as an aid to infection control protocols



Exit

Door & Access Solutions

Contactless Access



Our Magic Switch is a very simple radar based activation button which can be used in place of traditional push buttons to unlock or activate doors, shutters, automatic doors and other powered systems using a simple hand wave. It can integrate very simply with existing systems allowing easy replacement of standard push buttons to provide a contactless solution. Magic switches are already widely used in healthcare and clean manufacturing environments as well as multi occupancy office units and as such are a tried and tested solution.



Magic Switch: Contactless Activation door release point

Features & Applications

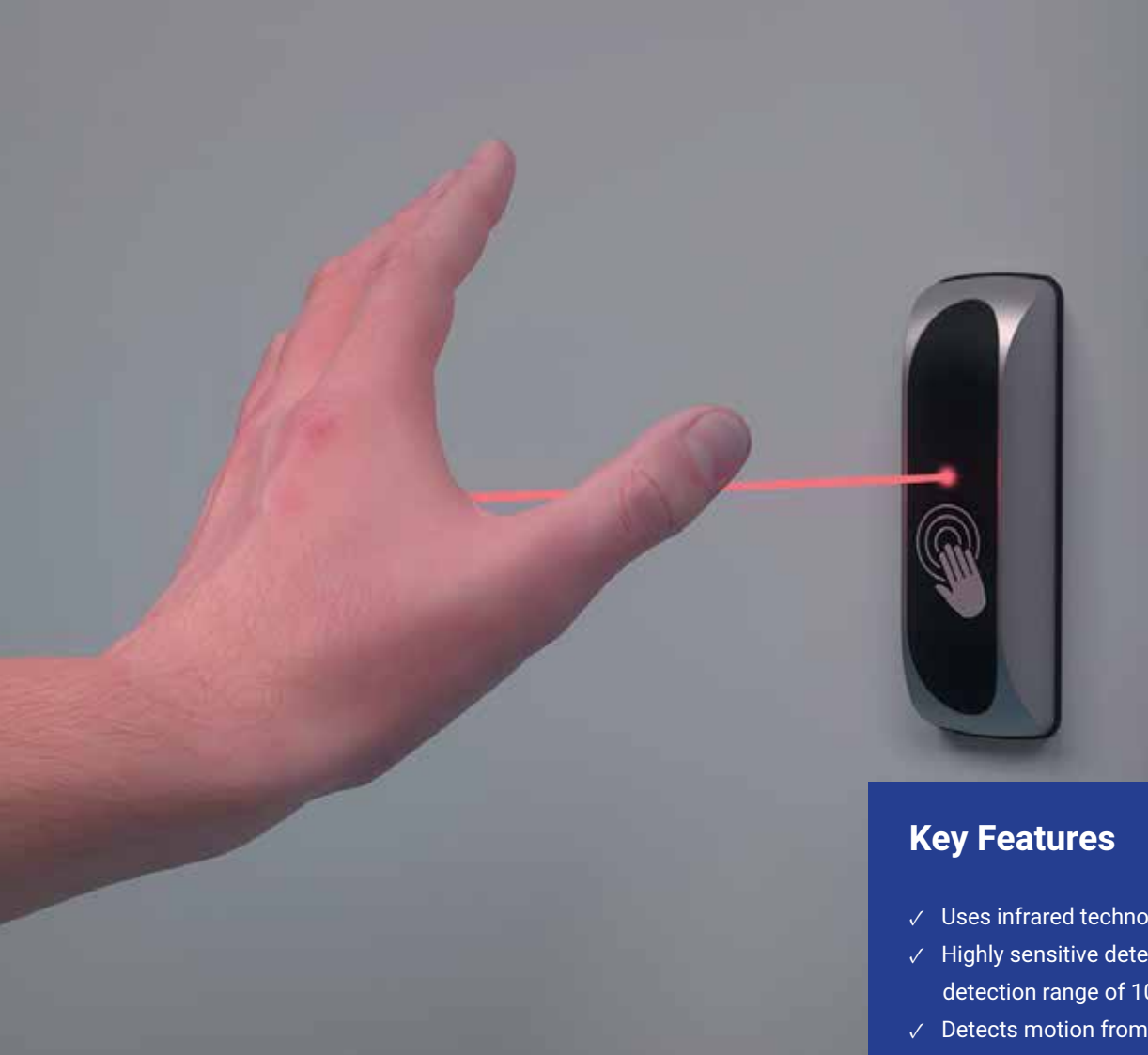
Applications

- ✓ Access control door release switch for electric locks
- ✓ Activation of automatic sliding doors
- ✓ Activation of automatic swing doors
- ✓ Washroom exits with automatic doors for touch free egress from washrooms
- ✓ Circulation areas in multi office environments to provide hands free activation and door unlocking
- ✓ Gowning Areas in hospitals for touch free un locking and opening of doors to theatres
- ✓ Circulation areas in hospitals as an aid to infection control protocols
- ✓ Warehouse areas to allow door activation when hands are full
- ✓ Cleanroom areas to allow activation and unlocking of doors without the need for wall mounted devices that might allow contaminants to gather

Key Features

- ✓ A contactless activation/door release point
- ✓ Microwave technology motion detection, ie. simple hand wave or motion to activate
- ✓ Read range and direction adjustable from 10 cm to 50 cm to optimise for environment
- ✓ Can be flush and surface mounted or behind glass plastic or plaster board
- ✓ Available up to IP 65 rated
- ✓ Integrates with all makes of access lock and automatic doors
- ✓ Both activation (pulse) and on/off (Switch) modes can be used
- ✓ Simple to retrofit just requires 12/24 volt power
- ✓ Very low energy consumption
- ✓ Long service life





Infrared Technology Activation door release point

Features & Applications

Applications

- ✓ Access control door release switch for electric locks
- ✓ Activation of automatic sliding doors
- ✓ Activation of automatic swing doors
- ✓ Washroom exits with automatic doors for touch free egress from washrooms
- ✓ Circulation areas in multi office environments to provide hands free activation and door unlocking
- ✓ Gowning Areas in hospitals for touch free un locking and opening of doors to theatres
- ✓ Circulation areas in hospitals as an aid to infection control protocols
- ✓ Warehouse areas to allow door activation when hands are full
- ✓ Cleanroom areas to allow activation and unlocking of doors without the need for wall mounted devices that might allow contaminants to gather

Key Features

- ✓ Uses infrared technology
- ✓ Highly sensitive detection with active infrared detection range of 10-30cm ± 3-5cm
- ✓ Detects motion from person or object
- ✓ Slim, aesthetically pleasing design with IP rating 54 dimensions of 40mm(W) x 117mm(H) x 19.5mm (D)
- ✓ Easily visible for all users



Architectural Hardware

Antimicrobial Hardware



We offer a ground breaking coating technology with anti-microbial qualities, developed by Bromoco International and leading biochemists and used internationally for anti-microbial protection. This virtually invisible coating is suitable for application either on-site, or in the factory, making it an ideal solution for both new buildings and retrofit projects.

Anti-microbial is simply the term used to describe something that has the ability to resist the growth of microbes. While the term 'antibacterial' refers only to bacteria, Anti-microbial refers to a wider range of organisms including bacteria, moulds, fungi and others. The anti-microbial technology is incorporated into our coating at the time of manufacture. Once incorporated, the anti-microbial additives provides continuous, built-in, anti-microbial protection for the expected lifetime of the product. The silver ions on the surface of a material treated with the coating bind with microbes that come into contact with the surface, disrupting their normal cell function, which stops them from reproducing and results in the death of the cell.

Hygiene control in all buildings has never been more important

Surfaces that are frequently touched are most likely to be harbouring highly contagious diseases such as COVID-19, especially in hospitals or heavy traffic areas of buildings.

Scientists have confirmed that COVID-19 can survive on surfaces for several days, citing that it can live on door handles for up to an alarming nine days.

As a result, there's never been a better time to consider the use of antimicrobial coatings on frequently touched surfaces at your site, such as buttons, push pads and door handles, to help reduce the risk and spread of Coronavirus between door users. Our antimicrobial coating uses silver ion technology to kill bacteria and viruses. It has been tested and proven effective against the H1N1 virus (which has very similar characteristics as Coronavirus), achieving a 99.99% reduction in viable H1N1 virus particles.

The application process is quick with very little disruption. A whole floor of a building can be treated in a night shift and ready for use the next morning providing 24 hour 365 day protection. For ironmongery it is a single coat application which dries within 30 minutes depending on room temperature.

Common Applications

Metal surfaces

- ✓ Door handles
- ✓ Light fittings
- ✓ Lift buttons
- ✓ Push pads

Powder coated surfaces

- ✓ Window furniture
- ✓ Radiators
- ✓ Window frames
- ✓ Office furniture

Hard plastic surfaces

- ✓ Light fittings
- ✓ Buttons
- ✓ Handles



Antimicrobial Hardware

Key benefits

This virtually invisible coating can be applied to any hard surface in or on your building at only 3 to 5 microns thick with a scratch resistance 2 points harder than granite. The scientifically proven antimicrobial technology will provide lasting and effective protection against harmful bacteria, mould, fungi and viruses by up to 99.99%, ultimately helping your paint or coating to minimise staining, bad odours and material degradation on any surface it is applied to. The coating can be applied in situ to common contact surfaces within all busy environments, such as elevator buttons/cabins and doors, light switches, door handles/ push pads, wall concrete, hard plastics and any other hard surface without the need to remove or replace the items. Ultimately reducing the risk of cross-contamination and complimenting existing hygiene protocols

1. Reduction of bacteria by 99.9%

Provides high levels of resistant, even antibiotic-resistant strains of bacteria such as MRSA, VRE and CRE cannot survive on protected products

2. Anti-fingerprint protection

Provides built-in anti-fingerprint technology which makes textured and porous surfaces easier to wipe clean.

3. Prevents growth of mould

Prevents the growth of unsightly and unpleasant mould such as *Aspergillus niger* cannot survive.

4. Defending against viruses

Proven to deactivate the H1N1 influenza virus.

5. Seals porous surfaces preventing ingress

Seals the surface of porous or textured surfaces making them easier to clean and maintain as well as providing bacterial protection below the surface.

6. Reduces risk of cross contamination

Provides a cleaner surface which means less microbes to transfer, ultimately reducing cross contamination.

7. Restores & Enhances

Enhances and restores the original colour and lustre of the substrate it protects

8. Reduces Odour

Reduction of microbes means reduced potential for unpleasant odours, so the surfaces stay fresh, increasing its functional life cycle.

9. Increases product lifespan

Provides lasting surface protection against microbial colonisation also minimises material degradation, ultimately extending the lifetime of the product.

10. 24 hour protection

Permanently provides around-the-clock protection against unseen microbes.

11. UV protection & colour fade

Has built in UV blockers that protect the surface from UV degradation and fade as well as preventing the coating from yellowing or discolouring.

12. Indefinitely maintainable (lifetime protection)

Can be maintained indefinitely due to its self annealing properties

13. Guaranteed to not crack or peel

Will remain flexible coping with the natural expansion and contraction of the surface it is protecting.

14. High scratch resistance

Has scratch resistances as high as H8 on the "pencil scale" where granite is H6

15. 10 year proven coating technology

Coating technology has been used for over 2 decades and has more than twice outlived its original guarantees.

Antimicrobial Hardware

How does it work?

The silver ions on the surface of a material treated with the coating bind with microbes that come into contact with the surface, disrupting their normal cell function, which stops them from reproducing and results in the death of the cell.



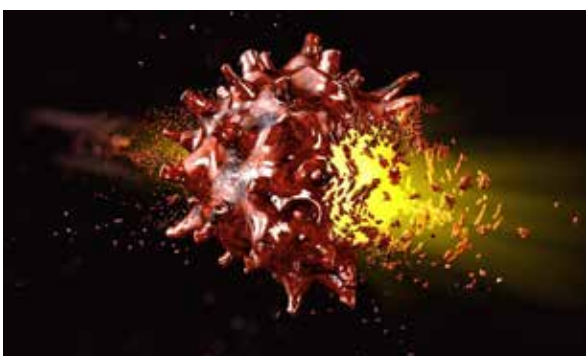
- 1.** Bacteria contaminates a surface from contact with source such as a person's hands or fingers



- 2.** Silver ions in the antimicrobial coating immediately act against the contaminating bacteria.



- 3.** On the coated surface, the silver ions combine with the bacterial within proteins and in the cell walls interfering with the DNA replication and promote the formation of reactive oxygen species.



- 4.** The bacteria die creating a safer, cleaner, more hygienic surface for use.



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