

Success story

Clean success with CleanAccess



Safe and comfortable:
CleanAccess from BBC Bircher optimises entrance hygiene



Contact-free door opening with the CleanAccess package with CleanSwitch

BBC Bircher is supplying Smart Access contact-free access systems for the toilet facilities in the sports venue and multi-purpose hall in Schaffhausen (CH), thus guaranteeing the best hygiene, especially during pandemic times.

Since 2011, Schaffhausen has had a multifunctional sports and event hall with space for 3600 spectators. The Handball Champions League is a regular guest here at the home club of Kadetten Schaffhausen. The women's volleyball team VC Kanti is another Swiss professional team that plays its games in the arena – very successfully in fact, as recently shown by their 2021 cup victory. At the same time, the multipurpose hall is still one of the largest handball training centres in Europe with countless junior teams – not even Covid has changed this. What cannot take place at the moment, but will hopefully start up again soon, are concerts, large corporate events and conferences, as well as religious gatherings and other large events.

The hall is managed as a public project by a non-profit foundation, making it the property of the citizens of Schaffhausen. According to David Graubner, the arena's Operations Manager, "The professionals actually train here every day any-

way. With popular sport there is currently a restriction until the age of 20. Seminars are again allowed for up to five people; however, we used to host such events with 150 to 200 people. Then, of course, there are the sporting competitions at weekends, which unfortunately will be held without spectators until further notice." Last but not least, the Schaffhausen Arena offers four-star accommodation as well as several bars, lounges and restaurants.

Freely combinable system with the world's smallest door drive

"Of course, we also wanted to take advantage of the reduced operations due to Covid to make improvements to the hall," Graubner continued. "An Achilles heel for some time has been the toilet facilities, as the doors have normal handles. This has been a huge effort for our cleaning staff since even before Covid, so we urgently wanted

to provide a hygienic and comfortable solution here." The proximity of the two companies also helped to launch a pilot project together with BBC Bircher Smart Access, the Swiss experts in access system automation.

The CleanAccess solution that has been newly developed for this purpose consists of flexibly adjustable microwave motion detectors from the PrimeMotion series and CleanSwitch contact-free switches, which can be combined with each other in almost any way. Damian Oliva, Product Manager at BBC Bircher Smart Access, explained the idea behind the new product: "Here we rely on a very compact low-energy drive, which in principle can be used to automate any door access, both inside and outside. It can be opened either by a gesture-controlled switch with a detection zone of 10 to 50 cm or fully automatically by radar sensor."

Both solutions are finally being used in the Schaffhausen Arena. First, however, a detailed

analysis of the access situation was carried out. Questions included: "Where do the people come from?", "How do I go to the toilet as a guest?", "When does the door have to open in order to be open in time?", and many more. For the four large toilet facilities, two in the catacombs and two in the bar area, microwave motion detectors are used for opening from the outside; from the inside, the doors can be operated contact-free via CleanSwitch.

Fast installation and customisation

"The solution works perfectly, we are very satisfied with the result as well as with the cooperation," enthuses Graubner. "The installation was carried out within a day after coordination with the in-house electrical system, and the solution has since proved its worth – everything runs much more hygienically, and staff have been significantly relieved." Small adjustments to the system can be made easily and quickly: For example, the motion sensor in the lower wet rooms had to be set in such a way that it did not open continuously when there was cross traffic; a special adjustment was also required in the bar area due to the relative proximity of the ladies' and gents' toilets.

The real challenge, however, lay elsewhere, as Graubner explains: "Due to operational procedures, it was important for us to be able to lock the toilets when needed. The easiest way to do this is with a mechanical solution on the handle



David Graubner, Operations Manager BBC Arena

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– but then these devices stay on the door and can still be used to open it." Oliva added: "So it involves automating a manual door drive. This results in certain adjustments – for example, limiting the number of attempts to open a locked door to no more than once. During busy periods, the door can also be switched to permanently open in order to increase efficiency and to avoid system irritation."

"So far, the new systems have fully proven themselves, and even small challenges in terms of fastening have been solved quickly", Graubner concludes. "What is still pending is an endurance test with a full hall – because we hope, of course, that we will be able to start operations again as

soon as possible, i.e. that we will be able to welcome many spectators and guests to a wide range of events. However, I am very confident that CleanAccess will prove its worth during busy periods and contribute to better hygiene, especially at large events."

Contact-free and hygienic opening of swing doors

CleanAccess is the name of the new solution from BBC Bircher Smart Access for the hygiene-compliant automation of swing doors. It has the following features:

- Flexible adaptation of the system to individual customer requirements
- Auto-learning function during commissioning
- Low maintenance, smallest low-energy drive in the world
- Easy installation by one person (drive on door leaf or lintel)

The combination of the opening systems consisting of a contact-free switch and two different microwave motion detectors offers optimum adaptation to almost any application.

Four doors of the BBC Arena were equipped with the following package:
CleanAccess Package CleanSwitch/PrimeMotion B (part no. 419542)



Door drive

Drive motor
Dimensions: 400 x 52 x 72 mm
Model: slide rail, silver



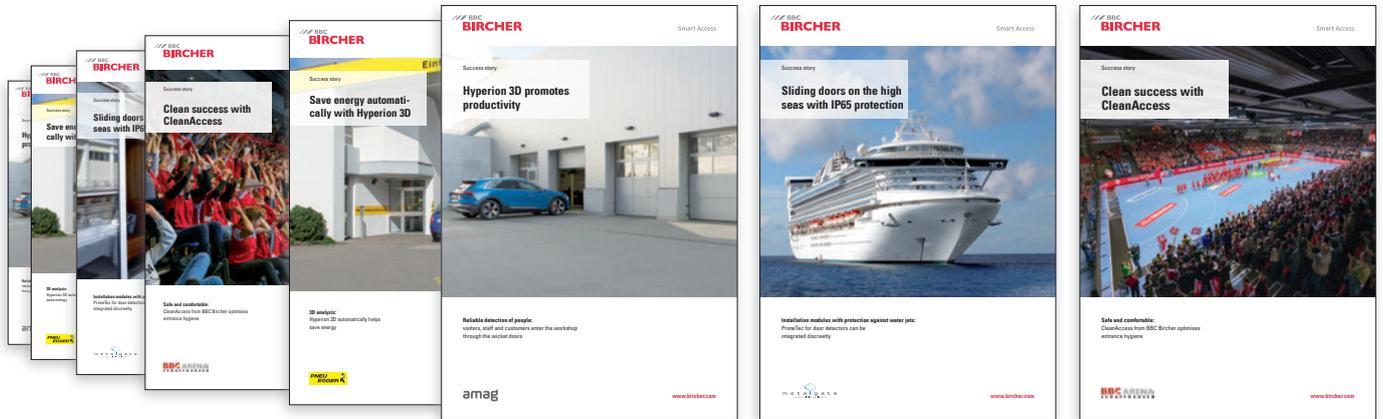
Detectors

CleanSwitch
Dimensions: 88 x 88 x 38 mm
Finish: white, "hand" pictogram
Surface-mounted box (included in the package)
Dimensions: 90 x 90 x 58 mm



PrimeMotion B
Dimensions: 172 x 60 x 48 mm
Model: Black

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About BBC Bircher Smart Access

BBC Bircher Smart Access develops, produces and distributes intelligent sensor solutions for access systems. Rising levels of pedestrian and vehicle traffic around the world are placing increasingly exacting requirements on access points.

Solutions from BBC Bircher fulfil the growing demand for safety, hygiene, accessibility and energy efficiency. Sensor solutions from BBC Bircher are characterised by a comprehensive product portfolio, an international production network, as well as the commitment and teamwork of some 180 employees and their exceptional technological expertise.

With its extensive sales network in Europe, Asia and North America, BBC Bircher has been meeting the specific requests and requirements of its international client base for more than 60 years. BBC Bircher Smart Access has been a business segment of the BBC Group since 1991.

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