SMART SYSTEM

THE POWER OF DIGITAL IN 2 WIRES

FERMAX
Duox is the new digital technology of Fermax that exceeds all expectations. It makes the difficult easy.

As the world’s first fully digital system based on 2 wires, Duox represents a new, innovative advance in audio and video door entry technology.

Harnessing the power of digital communication, Duox brings a higher performance level coupled with ease of installation. A two wire system with non-polarised connection, Duox takes the cost and time out of Door Entry system installations.

Step into the future and harness the power of Fermax’s new two wire digital system.
Digital 2 non-polarised wires system
Up to 10 panels & 10 guard units at the General Entrance
Up to 10 panels & 10 guard units at each block
Up to 100 blocks & 100 sub-blocks
Less intermediate elements for the installation
Total diversity of the installation
Wide range of door-entry panels and indoor devices with Fermax outstanding design

Discover DUOX, a state of the art, flexible, powerful and intuitive system
FLEXIBILITY
Wiring flexibility

2 Wires non polarised

Duox system operates on two wires from the start to the end of the installation.

Due to the fact that Duox is a digital system, the type of cable has much less influence on the quality and the running of the system compared to other analogue systems of the market.

DUOX CAN WORK WITH A LARGE VARIETY OF CABLES.
Parallel cable, twisted pair 1mm². AWG18, AWG20, AWG22, AWG24, UTP CAT5

IN REFURBISHMENT INSTALLATIONS, DUOX CAN BE INSTALLED ON THE EXISTING CABLE.
4+N, 1+N, 2 wire bells, Parallel 0,2 mm²

ERRORS ARE AVOIDED BECAUSE THE 2 WIRES CAN BE INVERTED.
REDUCTION OF INTERMEDIATE ELEMENTS. NO FLOOR DISTRIBUTORS. NO DECODERS. NO SWITCHERS

SIMPLE INSTALLATION

1 Building

The material list is simple:
- Panel
- Power Supply + filter
- Monitors and telephones
- Line adaptors

The interconnections of the apartments are done easily at each level through simple screw connectors.
Simplicity of installation

Save time during the installation and the maintenance. Judge for yourself!

COMPLEX INSTALLATION
(More buildings, longer distances)

Always simple. Just add the required regenerators depending on the distances.
Easy programming

No more hours are lost when it comes to programming the monitors. No tool is required, everything is done from the monitor's menu.

With DUOX, discover a simplified programming

Monitor programming

Duox monitors incorporate an intuitive OSD Menu from which only one person programmes the monitor.

4 steps, in a few seconds!

1. Access to the menu
2. Validate the installation's menu
3. Choose the programming option from the monitor
4. Introduce the apartment number

Panel programming

Pushbuttons panel: the DUOX amplifier is equipped with a vocal synthesizer that guides the installer.

Digital panel: programming from the keypad.
Digital transmission

Full digital means that all the information (audio, video and data) becomes digital.

Advantages

- Greater immunity to external interferences.
- Homogeneous quality all through the installation.
- Regenerators are used to boost the signal strength. They regenerate an exact signal, meaning that noise is not amplified.
- Long distance transmission can be achieved.
- More flexibility & higher capacities.
- Innovative technology, designed to integrate additional functionalities.

Analogue

- Analogue signal
- Analogue amplifier
- Amplified noise
  Amplified noise may destroy the integrity of the data.
- Noise

Digital

- Digital signal
- Digital regenerator
- No noise
  The data has a better chance of being received correctly.
  The regenerator has removed the noise so that the noise does not interface with the data transmitted.
Scalable system

All type of installations

The small, the large.
The simple, the complex.
The regular, the atypical.

There is no limit to what it is possible to do with Duox. Thanks to the digitalisation of the system, it is possible to do all types of installations. The more complex the installation, the more powerful is Duox. The regenerators are the only required elements to do large installations or long distances.

RESIDENTS ARE FREE TO CHOOSE THE INDOOR TERMINALS

Each telephone installed is a potential additional monitor sale for the installer

Install systematically a video door entry panel to make the resident choose the indoor terminal.

Apartment residents are free to choose the monitor which they prefer and which meets their budget.

Fermax manage easy system upgrade. A note is attached to the telephone handset explaining that it is easy to upgrade to a monitor. Just contact the installer.
Range of products
SKYLINE manufacturing materials – anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate in transparent elements, stainless steel inner grids, etc - are chosen for their beauty and maximum resistance to adverse weather conditions.

COMBINES
SKYLINE is the perfect door entry panel for contemporary installations that require multiple, integrated systems: information, communication and access control.

Its versatility makes it the only panel able to fulfill any requirements which may arise in a residential, industrial or service sector project.

Its modular design and versatility provide TOTAL CREATIVE FREEDOM to create any imaginable combination.

ENHANCES
SKYLINE modules include the most cutting-edge technologies and functionalities, such as the One To One module or the fingerprint reader module.

The modules are smart system linked, facilitating their repair and maintenance, as well as the subsequent inclusion of more cutting-edge equipment or new modules.

RESISTS
SKYLINE manufacturing materials – anodised aluminium profile, chromed zamak push buttons and reinforcements, polycarbonate in transparent elements, stainless steel inner grids, etc - are chosen for their beauty and maximum resistance to adverse weather conditions.

It consists of different modules: 8 frames of different dimensions, audio-video modules, push buttons modules, digital modules, access control readers, information modules and other accessories.

DUOX
IP43 IK07
ANODIZED ALUMINIUM
SKYLINE consists of 8 different-sized frames. Each frame can integrate a determined number of modules. Modules come in 2 sizes, designated V and W (W is twice the size of V).

**VIDEO AND AUDIO MODULES**

- **Video W** ref.7391
- **Audio W** ref.7390

**DOUBLE PUSH BUTTONS**

- 8 BP 204 W ref.7371
- 4 BP 202 V ref.7372
- 2 BP 201 V ref.7366

**SIMPLE PUSH BUTTONS**

- 4 BP 104 W ref.7367
- 2 BP 102 V ref.7368
- 1 BP 101 V ref.7375

**DIGITAL MODULES**

- Direct digital keypad W ref.7439
- Graphic Display W ref.7450
- Direct keypad W ref.7457

**INFORMATION MODULES**

- Panoramic cardholder W ref.7445
- Panoramic cardholder V ref.7442
- OneToOne V ref.7444
- OneToOne V with inductive loop ref.7448

**ACCESSORIES**

- Metallic complement W ref.7443
- Metallic complement W ref.7442

**ACCESS CONTROL**

- Memokey keypad W ref.7438
- Fingerprint W ref.6936
- Proximity V ref.7440

**FRAMES**

- Frame 1W ref.7341
- Frame 2V ref.7332
- Frame 3V ref.7333
- Frame 4V ref.7334
- Frame 5V ref.7335
- Frame 6V ref.7336
- Frame 7V ref.7337
- Frame 8V ref.7338
- Frame 9V ref.7339

**DIMENSIONS (mm)**

<table>
<thead>
<tr>
<th>51 (VW)</th>
<th>52 (VW)</th>
<th>54 (VW)</th>
<th>55 (VW)</th>
<th>56 (VW)</th>
<th>57 (VW)</th>
<th>58 (TV)</th>
<th>59 (BV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flush box</td>
<td>ref.8851</td>
<td>ref.8852</td>
<td>ref.8854</td>
<td>ref.8855</td>
<td>ref.8856</td>
<td>ref.8857</td>
<td>ref.8858</td>
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<tr>
<td>surface box</td>
<td>ref.7061</td>
<td>ref.7062</td>
<td>ref.7064</td>
<td>ref.7065</td>
<td>ref.7066</td>
<td>ref.7067</td>
<td>ref.7068</td>
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<tr>
<td>simple hood</td>
<td>ref.8400</td>
<td>ref.8401</td>
<td>ref.8403</td>
<td>ref.8404</td>
<td>ref.8405</td>
<td>ref.8406</td>
<td>ref.8407</td>
</tr>
<tr>
<td>modular frame</td>
<td>ref.9191</td>
<td>ref.9192</td>
<td>ref.9194</td>
<td>ref.9195</td>
<td>ref.9196</td>
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<td>ref.9198</td>
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<tr>
<td>city frame</td>
<td>ref.8251</td>
<td>ref.8252</td>
<td>ref.8254</td>
<td>ref.8255</td>
<td>ref.8256</td>
<td>ref.8257</td>
<td>ref.8258</td>
</tr>
<tr>
<td>angular complement</td>
<td>ref.8378</td>
<td>ref.8379</td>
<td>ref.8381</td>
<td>ref.8382</td>
<td>ref.8383</td>
<td>ref.8384</td>
<td>ref.8385</td>
</tr>
</tbody>
</table>

If the configuration requires a panel with cardholder, a connection cable ref. 2541 is required between panels (1 cable per each additional panel) and a joining bolts set ref. 8829 to unite flush box. More information in the DUOX section and commercial information of the General Catalogue.

Dimensions: width x height x depth (mm)
Panels

TECHNICAL FEATURES
DUOX VIDEO PANEL WITH PUSH BUTTONS

Zamak injected profile tops.

Sliding logo. Concealed screw bolt fixes panel to flush box.

Highpowerandperformance2Wamplifier.Ellipticalloudspeaker.

COLOUR camera with wide angle.

Compact audio-video module. Frontal module in aluminium and inner stainless steel grid.

Extruded aluminium curved-convex profile. Anodized finish.

Lighting for night vision by LEDs.

Zamak injected call button with chromed finish.

Polycarbonate card slot. Frontal card slot access. Outdoor resistant labels.

Concealed screw bolt fixes panel to flush box.

High sensitivity microphone.

REAR VIEW

Voice synthetizer as standard. “The door is open. Please, close the door behind you”.

Adjustment of conversation volume control from monitor, outdoor panel and synthesizer message.

Electronic circuit manufactured in SMD. DUOX connections:

- B,B: Bus DUOX
- C, NO, NC
- +12
- BS, -
- S, -
- +, GND

Power supply telephones/monitors, dates, audio and video.
Relay contacts, 2A@30Vdc (door lock connections).
Output 12 Vdc - 250mA.
Egress button.
Door sensor input.
Not available yet.

Smart connection between modules. Extension call modules are not required.

Pushbutton with waterlight contacts. Able to resist 100,000 pressings in 48 hours.

Laterally folding hinges.
Monoblock panel manufactured in anodized aluminium (IP43 IK07). The push buttons and displays are chromed zamak. It is characterized by its curved profile.

AMPLIFIER-CAMERA MODULE

Colour camera including 6 leds for a better visibility. It incorporates a wide angle of 70º (vertical) and 92º (horizontal). The amplifier is submitted to a tropicalisation process, designed to support the most extreme weather conditions. It is equipped with a vocal sintethizer that transmits a message when opening the door.

GRAPHIC DISPLAY

3.5" TFT screen with high luminance. Allows the name of the resident and apartment number to be displayed thanks to a telephonic listing system.

Several functions:
- Graphic icons indicating the start of the call, communication status or door opening.
- Option to display images, logos or messages.
- Alphanumeric name search.
- Date and time indicator.

KEYPAD

Manufactured in zamak. Visually impaired indicator on the 5th button. It has permanent blue backlighting allowing numbers to be seen in poor lighting. Its robust design and waterproof buttons guarantee reliability and durability in any type of environment.
Marine panel is a vandal-proof door entry system made in stainless steel (2,5mm-thick). (IP 54 IK 09). AISI 316L type of stainless steel.

**AMPLIFIER-CAMERA MODULE**

Colour camera including 6 leds for a better visibility. It incorporates a wide angle of 92º (vertical) and 70º (horizontal). The amplifier is submitted to a tropicalisation process, designed to support the most extreme weather conditions. It is equipped with a vocal synthethizer that transmits a message when opening the door.

**GRAPHIC DISPLAY**

3.5”TFT screen with high luminance. Allows the name of the resident and the apartment number to be seen thanks to a telephonic listing system.

Several functions:
- Graphic icons indicating the start of the call, communication status or door opening.
- Possibility to show images, logos or messages.
- Alphanumeric name search.
- Date and time indicator.

**KEYPAD**

Manufactured on zamak. Marking on the 5 button. It has permanent blue backlighting allowing to see the numbers in low lighting conditions. Its robust design and waterproof buttons guarantee reliability and durability in any type of environment.
Panels

VIDEO PANELS WITH PUSHBUTTONS

1/W TO 4/W VIDEO PANELS

Thanks to its advanced production facility, Fermax is able to manufacture all kinds of stainless steel panels, pushbuttons, standard or specials.

Marine door entry panels with pushbuttons require the call extension module depending on the number of pushbuttons (ref. 2008 - 8 calls module, ref. 2441 - 16 calls module).

ACCESSORIES

<table>
<thead>
<tr>
<th>FLUSH BOX</th>
<th>SURFACE BOX (including hood)</th>
<th>SIMPLE HOOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST1</td>
<td>ref.461 130x160x55</td>
<td>ref.4701</td>
</tr>
<tr>
<td>ST2</td>
<td>ref.462 130x220x55</td>
<td>ref.4702</td>
</tr>
</tbody>
</table>

SPECIAL MARINE PANLES (CUSTOM MADE)

3172     MARINE SPECIAL PANEL
4579     SPECIAL MARINE RAINHOOD FOR FLUSH BOX PANEL
4580     SPECIAL MARINE FLUSH BOX
4581     SPECIAL MARINE SURFACE BOX (WITH HOOD)

You will find special MARINE application forms at: www.fermax.com/intl/en/pro/online-support/special-panels.html
VEO-XS MONITOR

Hands-free VEO-XS monitor. Characterised by its small size and slimline profile. Thanks to its OSD menu and the layout of the buttons, the user experience is easy and intuitive. Made of high-impact ABS with a texturised finish for easy cleaning and ultraviolet protection.

• Surface-mounted handsfree monitor.
• Panoramic 4,3” 16:9 colour screen.
• 5 mechanical buttons for basic functions:
  - MENU.
  - AUTO-ON of the camera.
  - Door opener button (or call to the guard unit).
  - F1 to activate an additional function.
  - Conversation.
• Wheel on the side for the call & audio volume control.
• 3 Leds. “Do not disturb” “Conversation” “Doormatic”.

• OSD MENU:
  - Do not disturb function.
  - Doormatic (automatic opening) with configurable time.
  - 5 configurable ringtones.
  - F2 for additional function.
  - Easy programming from the OSD menu.
  - Door bell function.
  - Conversation privacy.
  - Includes the DUOX line adaptor jumper.

PHOTOCALLER

- The monitor stores up to 150 images, indicating the date and time when they were taken.
- When the maximum level has been reached, it will automatically delete the first photo in order to take a new one.
- It always indicates on the screen if there are unseen photos, or if the date/time is not configured.
VEO MONITOR

VEO monitor is made of high-impact ABS plastic. It has a texturised finish for easy cleaning and ultraviolet protection to get more resistance to the light. It integrates a 4.3” colour TFT screen. Its unique handset design incorporating a magnet enables the user to put it back into position correctly. Its balanced design of pure lines, original, modern and minimalist integrate the monitor in all the contemporary interior designs.

- Surface-mounted handsfree monitor.
- Panoramic 4.3” 16:9 colour screen.
- 4 mechanical buttons for basic functions:
  - MENU.
  - AUTO-ON of the camera.
  - Door opener button (or call to the guard unit).
  - F1 to activate an additional function.
- OSD MENU:
  - Do not disturb function.
  - 5 configurable ringtones.
  - Volume control.
  - F2 for additional function.
  - Easy programming from the OSD menu.
  - Door bell function.
  - Conversation privacy.

PHOTOCALLER

- The monitor stores up to 150 images, indicating the date and time when they were taken.
- When the maximum level has been reached, it will automatically delete the first photo in order to take a new one.
- It always indicates on the screen if there are unseen photos, or if the date/time is not configured.

ref. 9405  DUOX VEO MONITOR
ref. 9406  DUOX VEO CONNECTOR
ref. 9410  VEO MONITOR DESKTOP SUPPORT
An audio terminal of simple lines. It is made of high-impact ABS plastic. It has a texturised finish for easy cleaning and ultraviolet protection to achieve more light resistance.

Available in different models: the BASIC, with only a pushbutton for opening the door. And the EXTRA, that also includes the volume control and 2 pushbuttons for additional functions. Both telephones include the door bell function.

The iLOFT telephone is a compact and extra slim door entry system that works in hands-free communication with the outdoor panel.

The integrated digital audio VDS technology ensures a high quality, hands-free communication without interferences. Surface installation.
The new DUOX Audio G.U. has a multi-functional 4.3" capacitive touchscreen and quick function access buttons for easy and convenient management:

- **MENU**: By pressing on it, or directly on the touchscreen, you may access an interface where all the events of the installation are reported: call origins, call types, calls in progress, etc...
- **Lock release**
- **Directly access to the communications display to apartments, outdoor panels and other guard units.**
- **Directly access to missed calls, which are notified by a red LED on the monitor.**

Extra slim format, manufactured in high-impact ABS plastic and with a “mirror-polished” finish for easy cleaning. Its unique handset design incorporating a magnet enables the guard to put it back into position correctly. The visitors image cannot be shown in the screen of the guard unit. Includes a stainless steel desktop support. Allows a surface installation.

**3 operation modes:**
- **Day**: receives calls from outdoor panels and apartments.
- **Mixed**: calls from the outdoor panel are received at the guard unit and in the apartment.
- **Night**: only calls to apartments are allowed.
System components

**RISER**

**POWER SUPPLY**

![Power Supply Image]

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ref. 4830</td>
<td>POWER SUPPLY DIN 6 18 VDC / 3.5A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DUOX RELAY MODULE</th>
<th>ref. 3257</th>
<th>BUZZER ACTIVATOR</th>
<th>ref. 2438</th>
</tr>
</thead>
<tbody>
<tr>
<td>For F1 &amp; F2 complementary functions (freelance doormatic professionals, 2nd door, lighting, etc). No extra wiring in the riser.</td>
<td></td>
<td>LIGHT OR BUZZER ACTIVATOR</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LINE ADAPTOR</th>
<th>Mixed or video installations: 2 per riser. Audio installations: 1 per riser.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ref. 3255</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DUOX FILTER</th>
<th>To install with the power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>ref. 3244</td>
<td></td>
</tr>
</tbody>
</table>

**DUOX REGENERATORS**

There are 3 different devices for signal regeneration, depending on the needs and characteristics of the installation. The regenerator isolates the different sections of the installation, amplifies distances and increase the number of terminals. Inputs and outputs are isolated in terms of short-circuits and suppress possible problems of signal transmission. When a regenerator is installed, distances begin from 0.

- **1/WAY DUOX REGENERATOR**
  - ref. 3256
  - It has 1 input and 1 output. The sections of each level should have their own power supply + filter: the 1 output regenerator amplifies data but does not allow the power supply to pass.
  - It is recommended for amplifying distances, increase the number of terminals, isolate the segments of the installation or isolate the changes of wiring in the same segment.

- **2/WAY DUOX REGENERATOR**
  - ref. 3253
  - It has 1 input and 2 output. Thanks to its 2 output, it allows to increase the number of risers and isolate from each other. Power supply required (no filter). It can supply up to 20 terminals per output (in total 40 terminals with a 4830 power supply).
  - It is recommended in case it is necessary to increase the number of risers of the installation.

- **1/WAY MULTICHANNEL DUOX REGENERATOR**
  - ref. 3259
  - It generates a complementary call channel between the main door entry panel and the secondary buildings if the installation is composed of more blocks.
  - It is used to isolate the communication of one building from other buildings, allowing a simultaneous conversation to be maintained in each building where a ref. 3259 is installed. Apart from that, the functions are the same as the ref. 3256.
  - It is recommended for multi-building installations in order to have a communication channel per building.

<table>
<thead>
<tr>
<th>Number of inputs</th>
<th>3256</th>
<th>3253</th>
<th>3259</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of outputs</th>
<th>3256</th>
<th>3253</th>
<th>3259</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Regenerates</th>
<th>3256</th>
<th>3253</th>
<th>3259</th>
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<tbody>
<tr>
<td></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incorporates a power supply filter</th>
<th>3256</th>
<th>3253</th>
<th>3259</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non</td>
<td>Oui</td>
<td>Non</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complementary conversation’s channel per building</th>
<th>3256</th>
<th>3253</th>
<th>3259</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non</td>
<td>Non</td>
<td>Oui</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

- **DUOX RELAY MODULE**
  - ref. 3257
  - For F1 & F2 complementary functions (freelance doormatic professionals, 2nd door, lighting, etc). No extra wiring in the riser.

- **LINE ADAPTOR**
  - Mixed or video installations: 2 per riser. Audio installations: 1 per riser.
  - ref. 3255

- **DUOX FILTER**
  - To install with the power supply
  - ref. 3244

- **ELECTRONIC CALL EXTENSION BELL**
  - ref. 2040

- **LOCK RELEASE 540N-S MAX**
  - ref. 64801

- **LOCK RELEASE UNIVERSAL 12Vac/Vdc**
  - ref. 67501

- **LOCK RELEASE 540N-S MAX**
  - ref. 30711

- **POWER SUPPLY 12Vdc/2A, DIN 6**
  - ref. 4813
Video Kits
Individual residences and SME’s

**SYSTEM LAYOUT**

**TABLE OF DISTANCES**

<table>
<thead>
<tr>
<th>Max. distance panel-psu</th>
<th>Max. distance panel-monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>200m</td>
<td>200m</td>
</tr>
</tbody>
</table>

ref. 9421 1/W COLOUR DUOX VEO VIDEO KIT

ref. 9422 2/W COLOUR DUOX VEO VIDEO KIT

ref. 9431 1/W COLOUR DUOX VEO-XS KIT

ref. 9432 2/W COLOUR DUOX VEO-XS KIT

ref. 4907 1/W DUOX VEO KEYPAD VIDEO KIT

ref. 4912 1/W DUOX VEO-XS MEMOVISION KIT

ref. 4908 1/W DUOX ONE TO ONE VEO VIDEO KIT

ref. 5073 1/W COLOUR DUOX VEO-XS MARINE VIDEO KIT
Duox system is composed of the following elements:

- Panel
- Guard Unit
- PSU+FILTER
- Line adaptor
- Lock release
- Monitor
- Telephone
- Regenerator / Relay

**Diagram**

Ref.3244
Ref.9405
Ref.9408
Ref.9408
Ref.9405
Ref.3421
Ref.3244
Ref.4830
12Vdc

Trade mark

Duox

www.fermax.com/quickguide
Diagram

Duox video installation with Skyline panel

- DUOX SKYLINE panel.
- Lock release 12Vac/dc (ref.67501).
- Power supply 18Vcc (ref.4830) and 12Vdc (ref.4813).
- DUOX filter (ref.3244).
- VEO-XS monitor (ref.9408) + VEO-XS connector (ref.9407).
- DUOX line adaptor (ref.3255).

Distance table up to 40 monitors

<table>
<thead>
<tr>
<th>Max. Distance from Panel to 1st Bifurcation</th>
<th>Cascade 2 deriv./floor</th>
<th>4 deriv.</th>
<th>6 deriv.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 riser</td>
<td>45m</td>
<td>35m</td>
<td>35m</td>
</tr>
<tr>
<td>2 risers</td>
<td>25m</td>
<td>25m</td>
<td>20m</td>
</tr>
<tr>
<td>3 risers</td>
<td>15m</td>
<td>15m</td>
<td>15m</td>
</tr>
<tr>
<td>4 risers</td>
<td>15m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Max. Distance from Panel to 1st Bifurcation: 1 riser, 2 risers, 3 risers, 4 risers.
If an AC electric lock is used, an additional power supply (ref.4800 - 12Vac/1.5A) is required. Universal lock release ref.67501 - 990N-P22MAX.

The quantity of PSU+Filter can change depending on the cable used. (See pag.51)
Download "Fermax for Real", vores gratis app til mobilenheder, for at se med udvidet virkelighed ("Aumented Reality") hvordan vores produkter ser ud i dit hjem.

Tilgængelig til