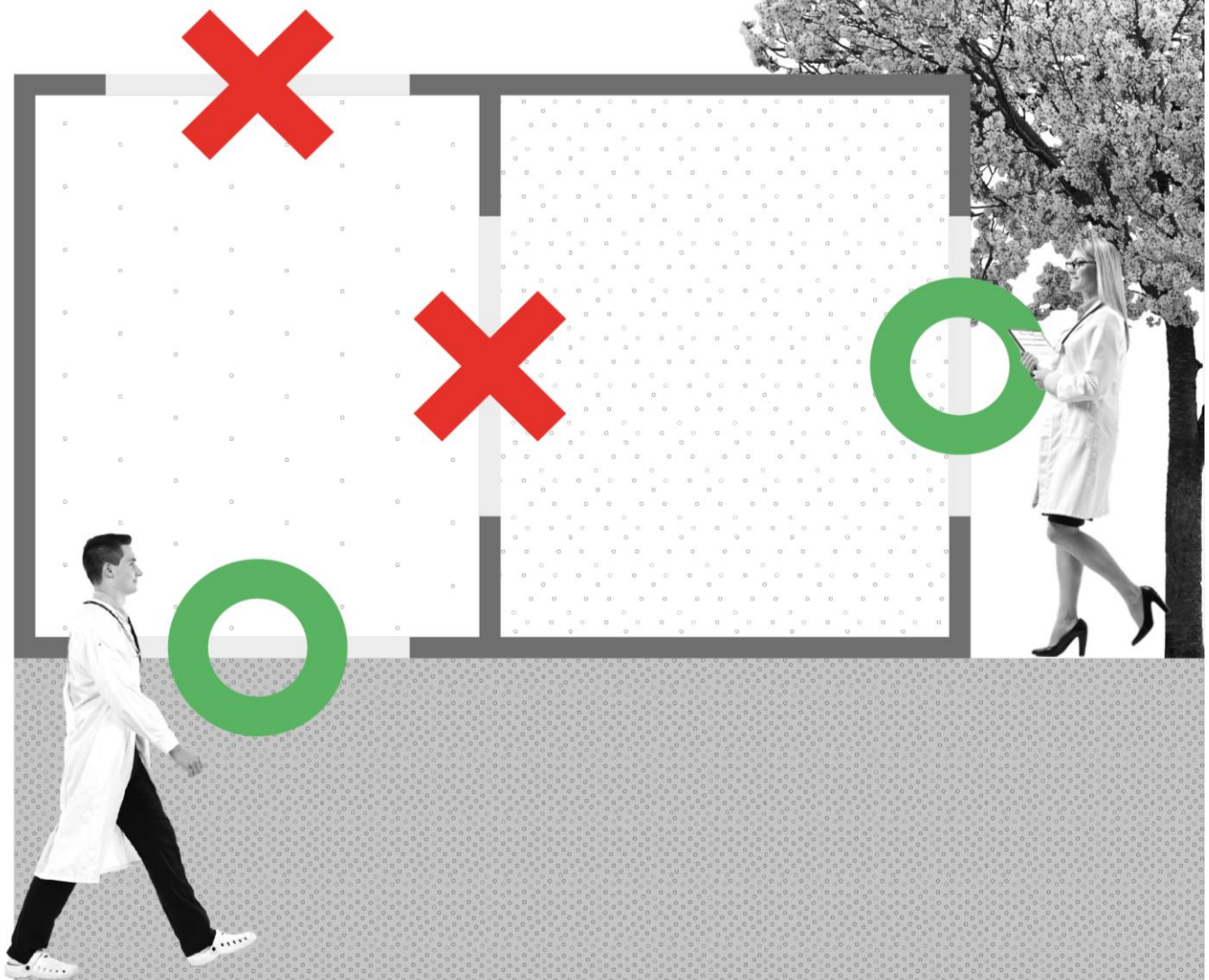


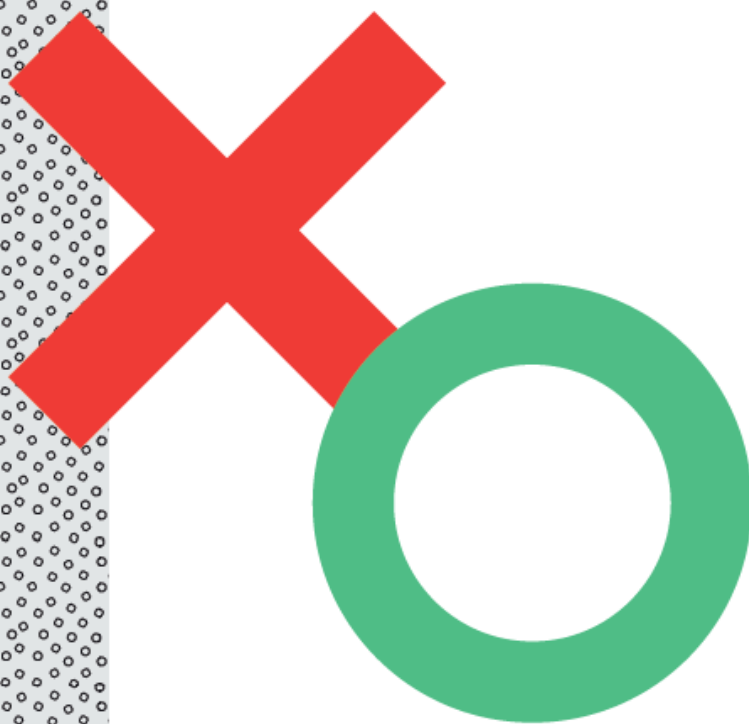


Your Device Group
Cleanroom door
interlocking solutions

Catalogue



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[@ydgsa_ch](https://www.instagram.com/ydgsa_ch)



Cellular Lock®

**Stand alone,
plug 'n play
solution**

YDG Mesh®

**Web-based
4.0 door
control**

Pneu Lock®

**Door interlocking
solutions for ATEX
environments**

Your Device Group is a young and dynamic company specialized in the design and production of electronic and pneumatic interlocking systems for cleanroom doors (air locks – air showers – pass boxes) used in Pharmaceutical, Chemical, Food, Aerospace and Microelectronics industries.



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Cellular Lock®

Electronic stand-alone interlocking system



*Plug 'n play interlocking control boards.
From the simplest two door airlock, up to interlocks with
access control integration, fan, UV lamp piloting and
automatic door interlocking.*

Product range

	2 doors	3 or 4 doors
Simplified solution for airlocks		
	Optima 2 - CL.CB.10-A1	Optima 4 - CL.CB.11-A1
Airlocks with recovery time		 + 
	One Cell - CL.CB.00-A2	One Cell - CL.CB.00-A2 One Cell Expansion CL.CB.01-A2
Airlocks with recovery time, automatic doors, access control		
	UNIQ 2 - CL.CB.06-A0	UNIQ 4 - CL.CB.07-A0
Complex interlocking systems up to 10 doors		
	Cellular Access - CL.CB.04-A1	Cellular Pass Through - CL.CB.05-A1



CL.CB.10-A1 Cellular Lock® - Optima 2

Cellular Lock® - Optima 2 is a simplified solution for 2 door airlock applications, such as changing rooms, material air lock (MAL), personnel airlock (PAL), where the doors are normally unlocked.

Cellular Lock® - Optima 2 can manage manual swing doors (hinged doors), manual sliding doors or even a passbox with permanent ventilation. The Cellular Lock® - Optima 2 control board can manage any 24 Vdc failsafe electric lock.

The control board offers a straightforward plug 'n play solution for 2 door airlocks.

The microcontroller of the control board automatically runs the "L1" logic, also called as "room logic" which means at any time one of the doors is open, the other door will be locked.

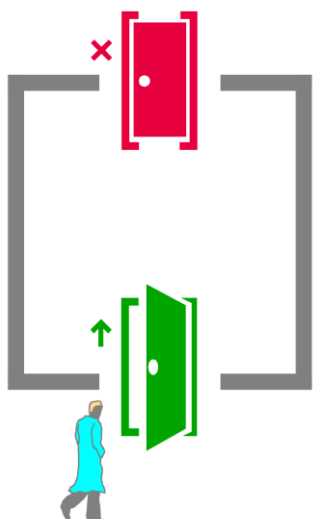
Anomaly management, such as door left open alarm, forced opening or simultaneous opening alarms are still part of the system. The indicator mounted door release button and audible alarm are fully managed.

GENERAL CHARACTERISTICS

Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.
Case:	108 x 95 x 38 (h) mm plastic case with wall mounting brackets.
Connections:	Power: 2.1 jack, Door connection: RJ45.
Doors managed:	2

ADDITIONAL FEATURES

	Access control integration:	NO
	Automatic door interlocking:	NO
	Recovery time:	NO
	Door position mirror:	NO



Cellular Lock®

Electronic stand-alone control boards



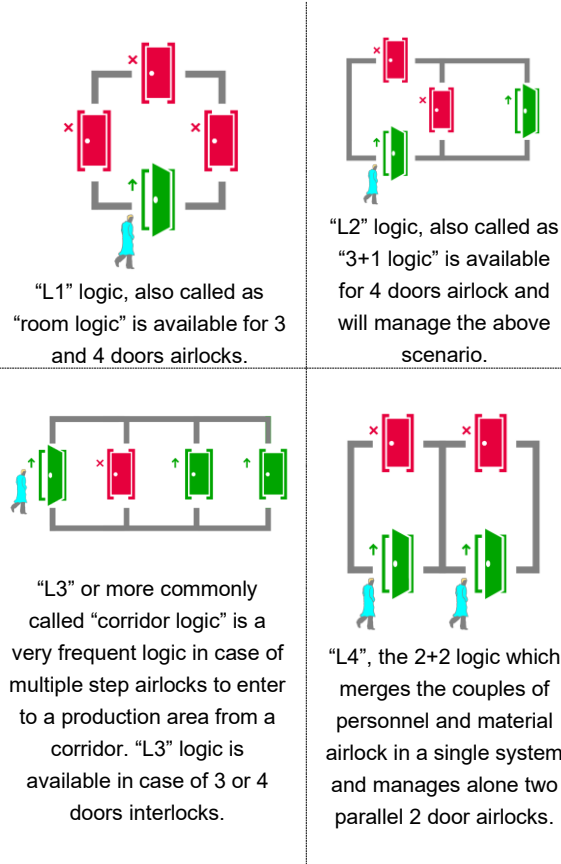
CL.CB.11-A1 Cellular Lock® - Optima 4

Cellular Lock® - Optima 4 is a simplified solution for 2, 3 or 4 door airlock applications, such as changing rooms, material air lock (MAL), personnel airlock (PAL), where the doors are normally unlocked.

Cellular Lock® - Optima 4 can manage manual swing doors (hinged doors), manual sliding doors or even a passbox with permanent ventilation.

The Cellular Lock® - Optima 4 control board can manage any 24 Vdc failsafe electric lock.

The control board offers a straightforward plug 'n play solution for 3 or 4 door airlocks. Anomaly management, such as door left open alarm, forced opening or simultaneous opening alarms are still part of the system. The indicator mounted door release button and audible alarm are fully managed. The control board has 4 dipswitches to define door quantity managed (2/3/4) and the opening logics:



GENERAL CHARACTERISTICS

Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.
Case:	108 x 95 x 38 (h) mm plastic case with wall mounting brackets.
Connections:	Power: 2.1 jack, Door connection: RJ45.
Doors managed:	3 or 4

ADDITIONAL FEATURES

	Access control integration:	NO
	Automatic door interlocking:	NO
	Recovery time:	NO
	Door position mirror:	NO





CL.CB.00-A2

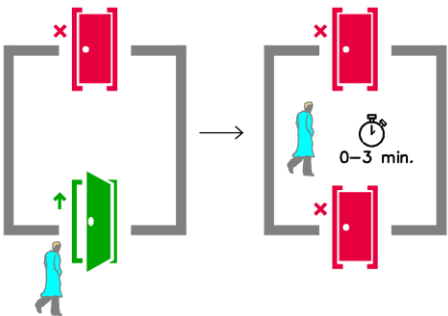
Cellular Lock® - One Cell

Cellular Lock® - One Cell is the ideal solution for the simple 2 doors airlock applications, such as changing rooms, material air lock (MAL), personnel airlock (PAL), where the doors are normally unlocked.

Cellular Lock® - One Cell can manage manual swing doors (hinged doors), manual sliding doors or even a passbox with permanent ventilation.

The interactive LEDs on the control board are showing the real-time door statuses, electric lock statuses and red / green indicators. The Cellular Lock® - One Cell control board can manage any 24 Vdc failsafe electric lock.

The Cellular Lock® - One Cell control board’s basic feature is to manage 2 doors airlocks, although an expansion module is available to extend the doors up to 4. For this reason, on the rear side of the control board there are nr. 4 dip switches to set the door numbers from 2 to 4 and to change the opening logic in case of 3 or 4 doors. The only applicable logic for a 2 doors airlock is logic “L1”, also called as “room logic” which means at any time one of the doors is open, the other door will be locked. **As a new feature, recovery time setting is now available on One Cell!**



GENERAL CHARACTERISTICS		
Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.	
Case:	108 x 95 x 38 (h) mm plastic case with wall mounting brackets.	
Connections:	Power: 2.1 jack, Door connection: RJ45.	
Doors managed:	2	
ADDITIONAL FEATURES		
	Access control integration:	NO
	Automatic door interlocking:	NO
	Recovery time:	YES
	Door position mirror:	YES





Cellular Lock®

Electronic stand-alone control boards

CL.CB.01-A1 Cellular Lock® - One Cell Expansion

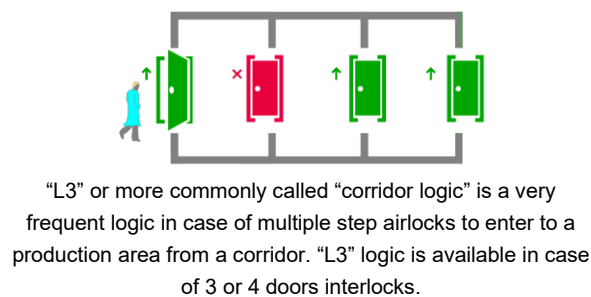
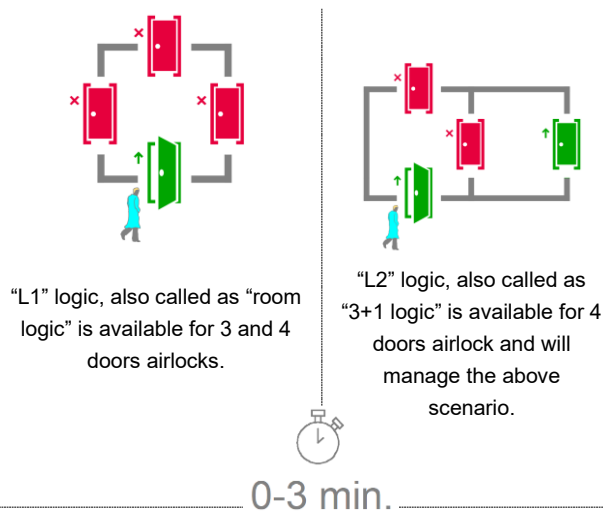


Cellular Lock® - One Cell Expansion is a passive extension module of Cellular Lock® - One Cell control board that allows to realize 3 or 4 door airlocks.

Cellular Lock® - One Cell Expansion can manage manual swing doors (hinged doors), manual sliding doors or even a passbox with permanent ventilation.

The interactive LEDs on the control board are showing the real-time door statuses, electric lock statuses and red / green indicators. The Cellular Lock® - One Cell Expansion control board can manage any 24 Vdc failsafe electric lock.

Once the Cellular Lock® - One Cell Expansion is connected to Cellular Lock® - One Cell and dip switches are set to 3 or 4 doors application, it will be possible to select the following interlocking logics:



GENERAL CHARACTERISTICS

Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.
Case:	108 x 95 x 38 (h) mm plastic case with wall mounting brackets.
Connections:	Power: 2.1 jack, Door connection: RJ45.
Doors managed:	3 or 4

ADDITIONAL FEATURES

	Access control integration:	NO
	Automatic door interlocking:	NO
	Recovery time:	YES
	Door position mirror:	YES



Cellular Lock®

Electronic stand-alone control boards

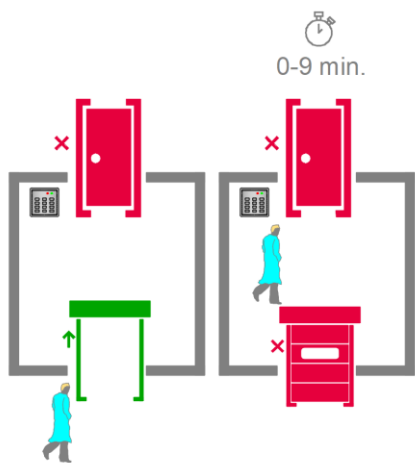
CL.CB.06-A0

Cellular Lock® - UNIQ 2



Cellular Lock® - UNIQ 2 is the “all-in-one” solution for **2 door airlocks** with doors equipped with special features such as access control, recovery time and door automations. Cellular Lock® - UNIQ 2 can manage manual swing doors (hinged doors), manual sliding doors, automatic swing (hinged) doors, automatic sliding doors or automatic roll-up doors. The interactive LEDs on the control board are showing the real-time door statuses, electric lock statuses and red / green indicators. The Cellular Lock® - UNIQ 2 control board can manage any 24 Vdc failsafe electric lock and can interlock the automatic door of any vendor.

The control board offers a straightforward plug ‘n play solution for 2 door airlocks. The microcontroller of the control board automatically runs the “L1” logic, also called as “room logic” which means that at any time one of the doors is open, the other door will be locked. Recovery time value is possible to set door by door, so it’s possible to associate a longer time towards the dirty area and a shorter time towards the clean area. All settings are made by dip switches, so the configuration can be adjusted anytime by the installer.



GENERAL CHARACTERISTICS

Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.
Case:	160 x 95 x 65 (h) mm plastic case with wall mounting brackets.
Connections:	Power: 2.1 jack, Door connection: RJ45.
Doors managed:	2

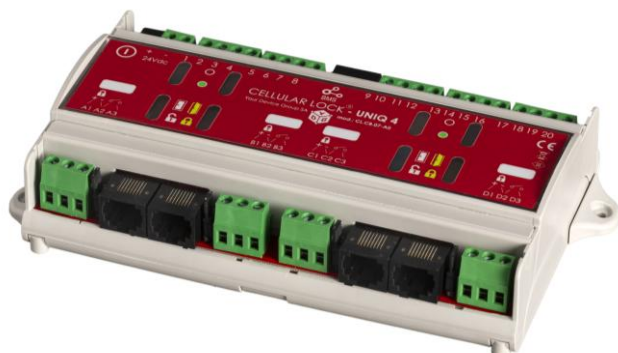
ADDITIONAL FEATURES

	Access control integration:	YES
	Automatic door interlocking:	YES
	Recovery time:	YES
	Door position mirror:	YES



Cellular Lock®

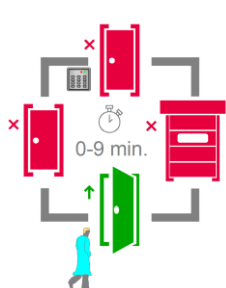
Electronic stand-alone control boards



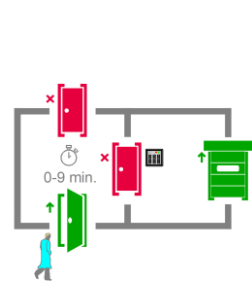
CL.CB.07-A0 Cellular Lock® - UNIQU 4

Cellular Lock® - UNIQU 4 is the “all-in-one” solution for **3 or 4 door airlocks** with doors equipped with special features such as access control, recovery time and door automations. Cellular Lock® - UNIQU 2 can manage manual swing doors (hinged doors), manual sliding doors, automatic swing (hinged) doors, automatic sliding doors or automatic roll-up doors. The interactive LEDs on the control board are showing the real-time door statuses, electric lock statuses and red / green indicators. The Cellular Lock® - UNIQU 4 control board can manage any 24 Vdc failsafe electric lock and can interlock the automatic door of any vendor.

The control board offers a straightforward plug 'n play solution for 3 - 4 door airlocks. Besides the door characteristics, the door opening logics (see chart below) are possible to set based on the doors layout: “L1”: room logic, “L2”: 3+1 logic, “L3”: corridor logic. Recovery time value is possible to set door by door, so it's possible to associate a longer time towards the dirty areas and a shorter time towards the clean areas. All settings are made by dip switches, so the configuration can be adjusted anytime by the installer.

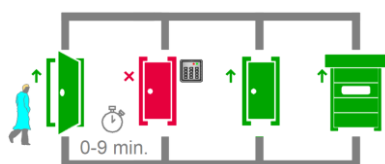


“L1” logic, also called as “room logic” is available for 3 and 4 doors airlocks.



“L2” logic, also called as “3+1 logic” is available for 4 doors airlock and will manage the above scenario.

0-9 min.



“L3” or more commonly called “corridor logic” is a very frequent logic in case of multiple step airlocks to enter to a production area from a corridor. “L3” logic is available in case of 3 or 4 doors interlocks.

GENERAL CHARACTERISTICS

Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.
Case:	160 x 95 x 65 (h) mm plastic case with wall mounting brackets.
Connections:	Power: 2.1 jack, Door connection: RJ45.
Doors managed:	3 or 4

ADDITIONAL FEATURES



Access control integration: YES



Automatic door interlocking: YES



Recovery time: YES



Door position mirror: YES



Cellular Lock®

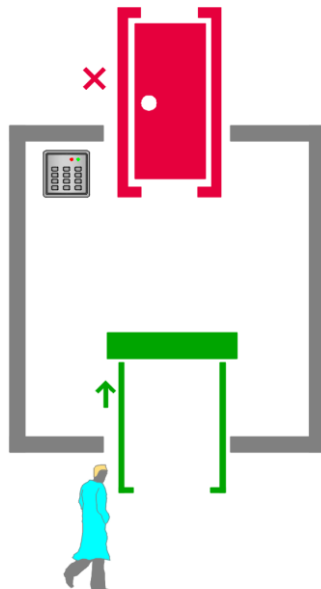
Electronic stand-alone control boards



CL.CB.04-A1 Cellular Lock® - Cellular Access

Cellular Lock® - Cellular Access control board gives a solution for the airlocks having automatic doors and / or normally locked manual doors to be unlocked by access control devices or push buttons, wave sensors, etc. Cellular Lock® - Cellular Access can manage manual swing doors (hinged doors), manual sliding doors, automatic swing (hinged) doors, automatic sliding doors or automatic roll-up doors. The interactive LEDs on the control board are showing the real-time door statuses, electric lock statuses and red / green indicators. The Cellular Lock® - Cellular Access control board can manage any 24 Vdc failsafe electric lock and can interlock the automatic door of any vendor.

A single Cellular Access control board can drive 2 doors, and **the control boards can be connected in a modular system up to 5 control boards to realize a complex airlocks up to 10 doors** in the same interlocking logic. The interlocking logic and master - slave setting is thru dip switches. The key features of the Cellular Lock® - Cellular Access control board are the automatic doors interlocking and the interlocking of manual doors with access control device. Installers, through the dipswitch configuration can easily assign proprieties (whether the door is automatic or normally locked manual with access control device) to the doors. The wiring of any type of access control device, having a dry contact output, and the wiring of the communication with the automatic door is by the removable screw terminals on the control board.



GENERAL CHARACTERISTICS

Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.
Case:	160 x 95 x 38 (h) mm plastic case with wall mounting brackets.
Connections:	Power: 2.1 jack, Door connection: RJ45.
Doors managed:	2 by a single module. Up to 10 doors with 5 modules in daisy chain.

ADDITIONAL FEATURES

	Access control integration:	YES
	Automatic door interlocking:	YES
	Recovery time:	NO
	Door position mirror:	YES



Cellular Lock®

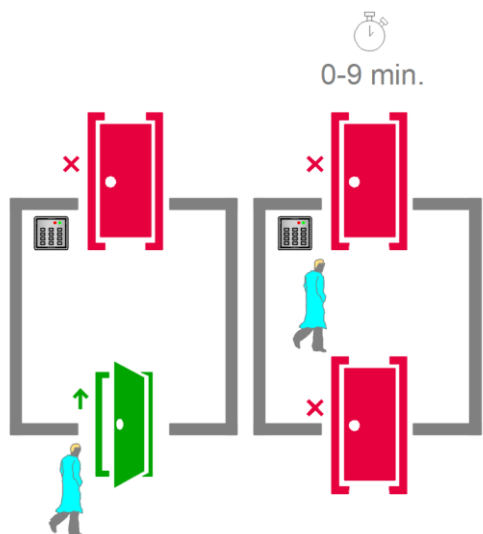
Electronic stand-alone control boards



CL.CB.05-A1 Cellular Lock® - Cellular Pass Through

Cellular Lock® - Cellular Pass Through control board gives a solution for the airlocks having time delays and/or normally locked manual doors to be unlocked by access control devices or push buttons, wave sensors, etc. Besides the time delay it is also possible to activate a blower or a UV lamps by low voltage piloting relays for the same duration of the time delay set. Cellular Lock® - Cellular Pass Through can manage manual swing doors (hinged doors), manual sliding doors, air showers, dynamic pass boxes. The interactive LEDs on the control board are showing the real-time door statuses, electric lock statuses and red / green indicators. The Cellular Lock® - Cellular Pass Through control board can manage any 24 Vdc failsafe electric lock.

A single Cellular Pass Through control board can drive 2 doors, and **the control boards can be connected in a modular system up to 5 control boards to realize a complex mantrap up to 10 doors** in the same interlocking logic. The interlocking logic and master - slave setting is thru dip switches. The key features of the Cellular Lock® - Cellular Pass through control board are the airlocks interlocking with time delay and the interlocking of manual doors with access control device. Installers, through the dipswitch configuration can easily assign proprieties (whether the door has time delay or normally locked manual door with access control device) to the doors. The wiring of any type of access control device, having a dry contact output, and the wiring of blower / UV lamp activation during time delay is by the removable screw terminals on the control board. A unique feature of the control board is the double rotary switch for the time delay setting. It is possible to set a different time for the two doors managed.



GENERAL CHARACTERISTICS

Power supply:	24 Vdc by 90 - 264 Vac, 47 - 63 Hz fed external power pack.
Case:	160 x 95 x 38 (h) mm plastic case with wall mounting brackets.
Connections:	Power: 2.1 jack, Door connection: RJ45.
Doors managed:	2 by a single module. Up to 10 doors with 5 modules in daisy chain.

ADDITIONAL FEATURES

	Access control integration:	YES
	Automatic door interlocking:	YES
	Recovery time:	YES
	Door position mirror:	YES



Not just a control board! We are offering you custom made cabinets powered by **Cellular Lock®** Control boards to manage additional functions of your **Interlocked Hatches, Passboxes, Airshowers**

such as:

Fan Filter Units, UV Lamps, Internal Illumination, VHP nebulizer, UV hour counter.

Fan Filter Unit: Activation during the time delayed recovery cycle. If the utilized FFU allows reduced flow when the passbox is at rest, the controller will manage to switch between reduced flow when passbox is at rest and 100% flow during recovery cycle.

UV lamp: Activation during the time delayed recovery cycle or activation all the time when the passbox doors are closed.

VHP nebulization: Activation during the time delayed recovery cycle with take over of cycle duration by the nebulizator.

Internal illumination: activation when a door is open.

Prewash cycle: The passbox can only be opened after the completion of a prewas cycle by FFU and or UV lamp.



UV LAMP
Passbox with UV lamp



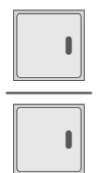
BLOWER
Passbox with blower



RECOVERY TIME
Passbox with different recovery time



**DOUBLE DECK
PASSBOX**
One controller can handle
4 doors in the same
double deck passbox

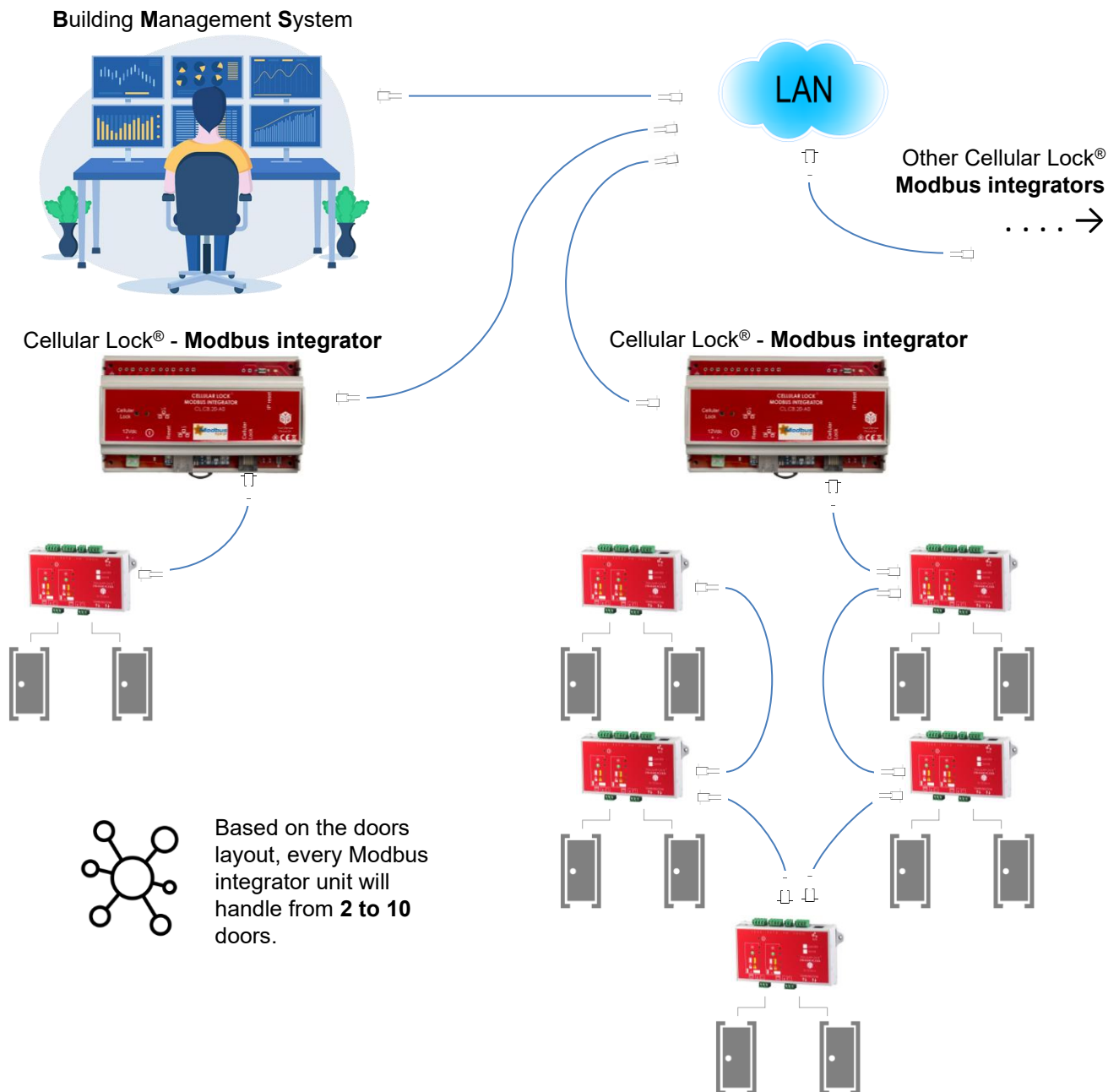


ACCESS CONTROL
Passbox with access control



Cellular Lock®

BMS controlled door interlock thru Modbus TCP



*Connectivity is a must.
Modbus integrator offers an easy and simple way to interface Cellular
Lock® system with
Building Management Systems using Modbus TCP protocol.*

Product range

Modbus integrator	A white, rectangular electronic device with a red top panel. The panel features a 'Cellular Lock' logo, a 'Modbus' logo, and the text 'CELLULAR LOCK MODBUS INTEGRATOR CL.CB.20-A0'. It has several status LEDs and a 'Reset' button. The bottom of the device shows a green terminal block, a BNC connector, and an RJ45 port. Modbus integrator – CL.CB.20-A0
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Cellular Lock®

BMS controlled door interlock thru Modbus TCP



CL.CB.20-A0

Cellular Lock® - Modbus Integrator

Cellular Lock® - Modbus Integrator is a gateway specifically studied to integrate Cellular Lock® interlocks to Building Management Systems through Modbus TCP / IP protocol.

The gateway offers control and monitoring off all door parameters such as door status, lock status, recovery time and door left open alarm settable door by door, remote door lock / unlock commands, system diagnostics monitoring, anomaly recognition such us forced door opening or emergency release button activation.

Cellular Lock® - Modbus Integrator ensures a fail-safe integration. If BMS connection fails, the interlocking system keeps working independently.

Every Modbus Integrator needs static IP assignment. The static IP address can be assigned by the end user thru a dedicated web page reachable by a provisory DHCP address. The communication between the supervisor (BMS) and client (Cellular Lock® - Modbus Integrator) follows the Modbus TCP / IP rules and it's divided into four main function codes:

FC2: read input status Single door parameters. It's possible to monitor door by door the following 4 parameters: • Door status: open / close • Lock status: locked / unlocked • Door left open for too long time: yes / no • Door in recovery time: yes / no	FC4: read input register Diagnostics of the entire interlock system controlled by the specific Modbus Integrator: • Regular operation of the system • Initial check-up • System in emergency release • Forced / simultaneous opening alarm • Communication error
FC5: force single coil Activation of commands remotely on the single doors: • Locking of single door (for example based on Δp value of the room) • Unlocking single door when set to be normally locked. (for example equipped with access control)	FC6: force holding register This register can set both single door parameters, such as recovery time and door left open alarm and entire system commands: • Single door recover time (0-255 min. / 0-255 sec.) • Door left open alarm (0-255 min. / 0-255 sec.) • System emergency release • System reset

GENERAL CHARACTERISTICS

Power supply:	12 Vdc by external power supply.
Case:	160 x 95 x 65 (h) mm plastic case with DIN rail mounting.
Connections:	LAN connection: RJ45. Connection towards Cellular Access control boards: RJ45. 12Vdc power supply: screw terminal.



YDG Mesh®

Real-time door management via interactive software



*Connectivity is a must.
YDG Mesh® is a complete package of control boards and a web-based
interactive application to monitor and control door parameters.*

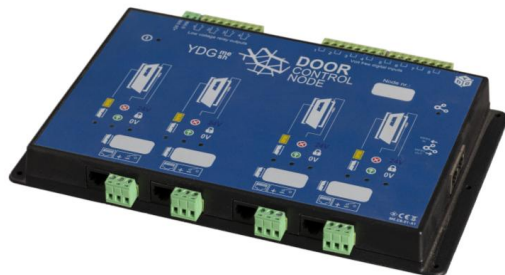
Product range

<i>Connection between LAN and control nodes</i>	 A blue rectangular electronic module with a silver metal base. The top surface is blue with white text and symbols. It features a YDG logo, the text 'NETWORK LINK NODE', and various technical specifications and icons. The bottom edge has several connection points.
	Network Link Node - ME.CB.00-A1
<i>Interlocked doors control nodes</i>	 A blue rectangular electronic module with a black plastic base. The top surface is blue with white text and symbols. It features a YDG logo, the text 'DOOR CONTROL NODE', and various technical specifications and icons. The bottom edge has several green terminal blocks for wiring.
	Door Control Node -ME.CB.01-A1

Real-time door management system via interactive software

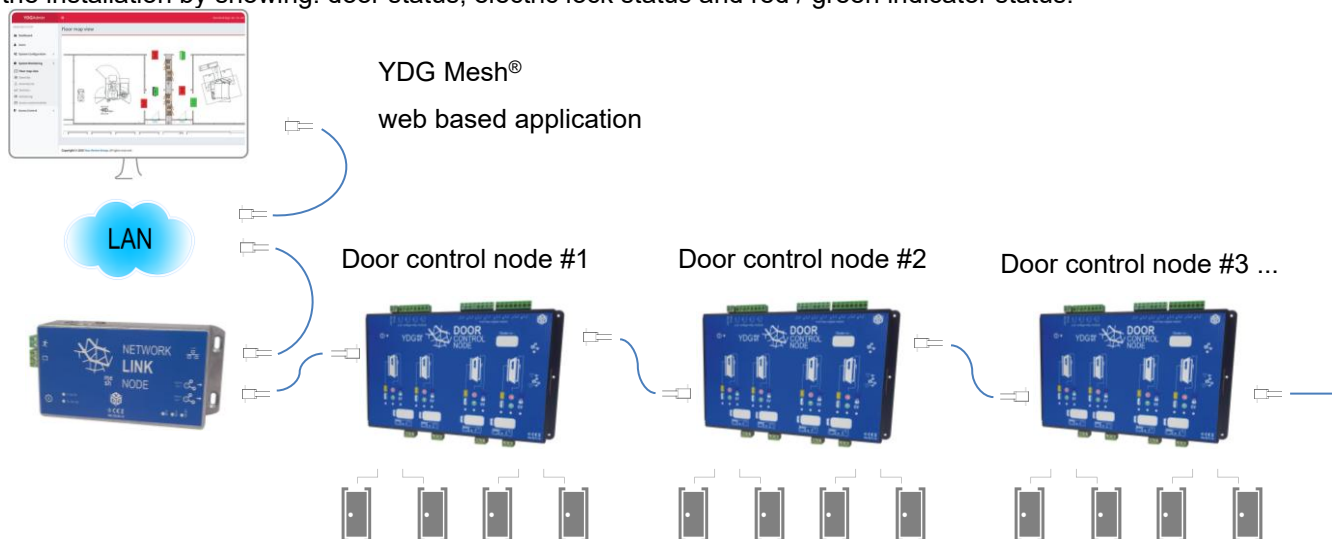
ME.CB.01-A1

YDG Mesh® - Door Control Node



YDG Mesh® is an interactive and real-time cleanroom door management system that allows to monitor and control the cleanroom production department doors and accesses by a web-based application. The system will monitor, record door statuses, allow the dynamic configuration of door parameters and interlocking logics and accesses to the rooms. The system is controlled by a web-based application, that is reachable by any computer connected to the factory LAN. To maintain the GMP environment classes the interlocking logic configuration allows dynamic reviews, recovery time adjustments, and interlocking logic changes by remote connection. The system is fail-safe, though the central control unit or a computer blackout does not have an impact on the secure functioning of the door interlocks.

Door Control Node is the module where the interlocked doors are connected. Every Node will manage up to 4 doors. Once the modules are connected between them, the interlocking relations are possible to set between any of the doors, even if connected to different Door Control Nodes. All types of doors can be managed, such as manual normally locked / normally unlocked, automatic doors, doors with recovery time and or access control. For additional connections, ex.: UV lamps, blowers, Δp sensors, the module offers C/NO/NC relays and digital inputs. The housing is small dimensions, all connectors are plug 'n play type and colorful LED indicators help the technicians working on the installation by showing: door status, electric lock status and red / green indicator status.



GENERAL CHARACTERISTICS

Power supply:	24 Vdc by external power supply.
Case:	267 x 162 x 28(h) mm plastic case with wall mounting brackets.
Connections:	Daisy chain connection to other modules: RJ45. Door connection: RJ45. 24Vdc power supply: jack terminal.
Doors Managed:	4 by a single module. Up to 400 doors with 100 modules in daisy chain.



Real-time door management system via interactive software

ME.CB.00-A1

YDG Mesh® - Network Link Node



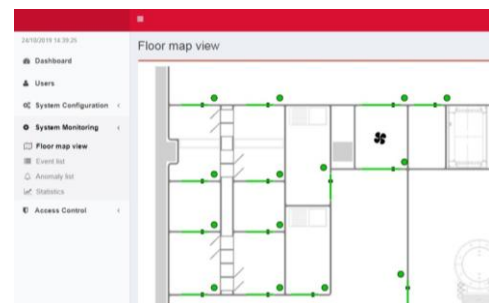
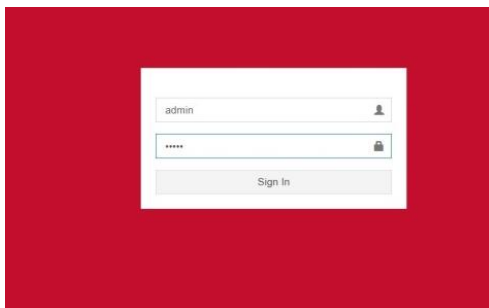
The central unit of YDG Mesh® system is the Network Link Node. This unit is complete of its own Central Processing Unit and web-based software that runs independently from the factory network or PC connections. The device is possible to connect to the factory LAN and through its dedicated IP address it is possible to get access to the web-based application.

The access to the software is protected by 2 levels of user access levels and dedicated passwords:

Viewer – may only see the system running but cannot change parameters. Unlimited quantity of users.

Administrator – may monitor the system, manage the accesses and passwords of the software and change system parameters, such as interlocking logics, access control and door configuration. Unlimited quantity of users.

With an administrator access it is possible to configure door parameters, interlocking logics and access control rules and send updates to the system remotely, thus without physical access to the control boards allocated in the production area. The Network link node has its own memory card and registers every single event that occurs related to the cleanroom doors, such as: opening, closing, lock activation, lock release, digital inputs, relay activations and accesses. The system also saves in a separate database all the anomalies, so unwanted events that happen, such as doors left open, simultaneous openings, forced openings, release buttons pressed. This section allows a better control of the incorrect operation in the production area.

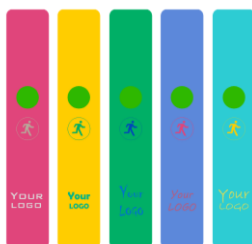
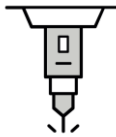


GENERAL CHARACTERISTICS

Power supply:	24 Vdc by external power supply.
Case:	178 x 83 x 50 (h) mm metal case with wall mounting brackets.
Connections:	Daisy chain connection to other modules: RJ45. LAN connection: RJ45. 24Vdc power supply: jack terminal.

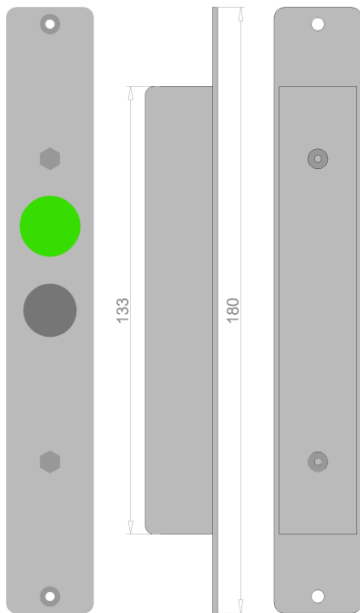
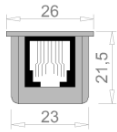


Red / green indicators

	<i>Monopuls “all in one” indicators in stainless steel</i>		<i>Stainless steel indicators</i>		<i>Membrane covered indicators</i>			
<i>Door frame mounted</i>								
	CL.TL.06.00-A0		CL.TL.03.00-B0		CL.TL.00.00-A1		CL.TL.10.00-B0	
<i>Wall mounted</i>								
	CL.TL.07.00-A0		CL.TL.04.00-A2		CL.TL.01.00-A1			
<i>External mounted</i>			Request membrane covered indicators with YOUR LOGO printed on the membrane.					
	CL.TL.09.00-A0							
<i>Pass-box</i>			Request stainless steel indicators with YOUR LOGO laser marked on the frontplate.					
	CL.TL.12.00-A0							

YDG red – green indicators are produced with high quality components and specifically studied solutions for the cleanroom environments.

Membrane covered indicators



CL.TL.00.00-A1

Frame mounted membrane light

Technical characteristics:

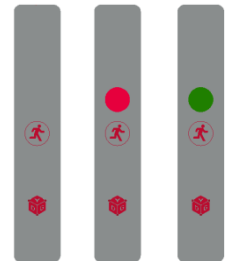
Aluminum front plate, dim.: 26 x 180 mm,
Aluminum rear case. Depth: 21,5 mm.
Finishing: 3M adhesive membrane application
with translucent red / green LED zone.
Connection: 2 x RJ 45 plug 'n play
Voltage: 24 Vdc.

Functions:

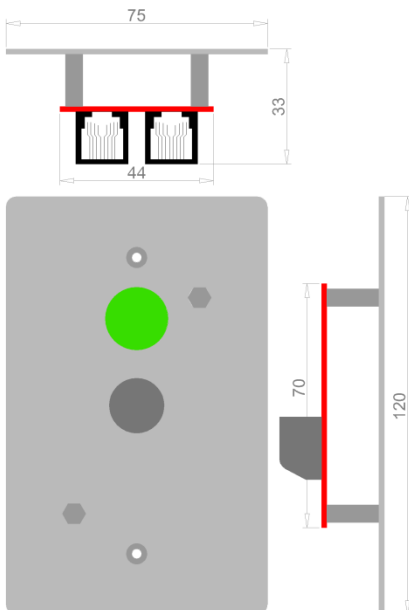
Red indicator
Green indicator
Audible alarm
Emergency release button
Pinout programming by jumpers

Installation detail:

Due to the final membrane application,
only flush mounted installation is
possible. CNC cutout size: 26 x 180
mm, corners R3 mm.



Indicator with
membrane
application



CL.TL.01.00-A1

Wall mounted membrane light

Technical characteristics:

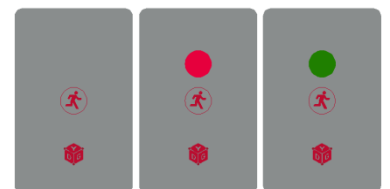
Aluminum front plate, dim.: 75 x 120 mm,
Depth: 33 mm.
Finishing: 3M adhesive membrane application
with translucent red / green LED zone.
Connection: 2 x RJ 45 plug 'n play
Voltage: 24 Vdc.

Functions:

Red indicator
Green indicator
Audible alarm
Emergency release button
Pinout programming by jumpers

Installation detail:

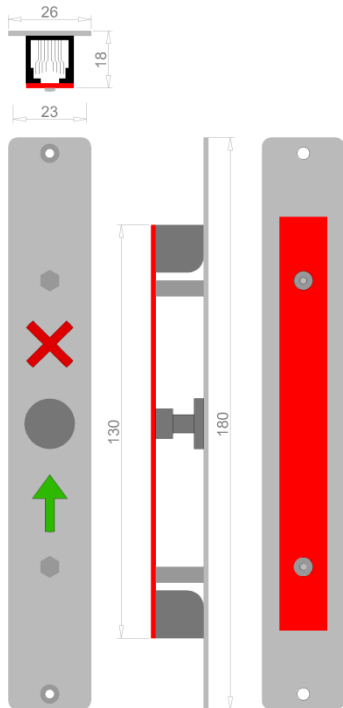
Due to the final membrane application,
only flush mounted installation is
possible. CNC cutout size: 75 x 120
mm, corners R3 mm.



Indicator with
membrane
application



Membrane covered indicators



CL.TL.10.00-B0

Dual LED membrane light

Technical characteristics:

Aluminum front plate, dim.: 26 x 180 mm,

Depth: 21,5 mm.

Finishing: 3M adhesive membrane application with translucent red / green LED zone.

Connection: 2 x RJ 45 plug 'n play

Voltage: 24 Vdc.

Functions:

Red indicator

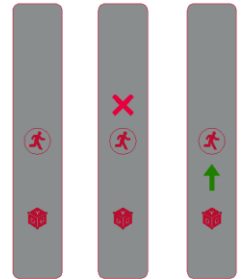
Green indicator

Audible alarm

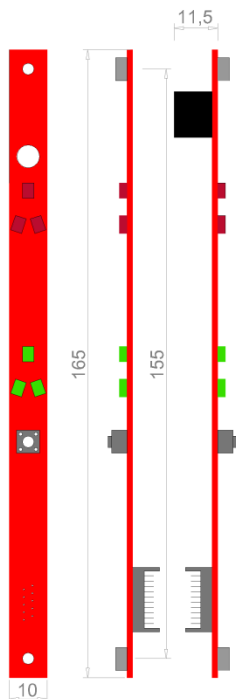
Emergency release button

Installation detail:

Due to the final membrane application, only flush mounted installation is possible. CNC cutout size: 26 x 180 mm, corners R3 mm.



Indicator with membrane application



CL.TL.11.00-A0

Slim light

Technical characteristics:

Dim.: 10 x 165 mm,

Depth: 11,5 mm.

Finishing: 3M adhesive membrane application with translucent red / green LED zone.

Connection:

2 x Lumberg mica 10 connector

Voltage: 24 Vdc.

Functions:

Red indicator

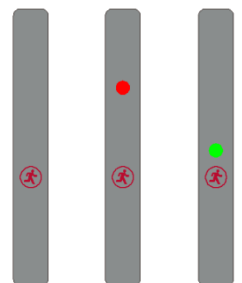
Green indicator

Audible alarm

Emergency release button

Installation detail:

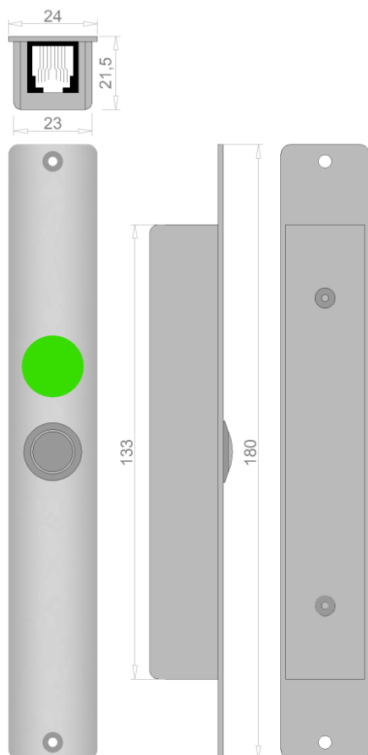
Due to the final membrane application, only recessed mounted into door frame is possible.



Indicator with membrane application



Stainless steel front plate indicators



CL.TL.03.00-B0 Frame mounted INOX light

Technical characteristics:

Stainless steel front plate, dim.: 24 x 180 mm,
Aluminum rear case. Depth: 21,5 mm.

Finishing: Brushed stainless steel with anti-vandal
stainless steel push button and client logo by laser
engraving.

Connection: 2 x RJ 45 plug 'n play

Voltage: 24 Vdc.

Functions:

Red indicator

Green indicator

Audible alarm

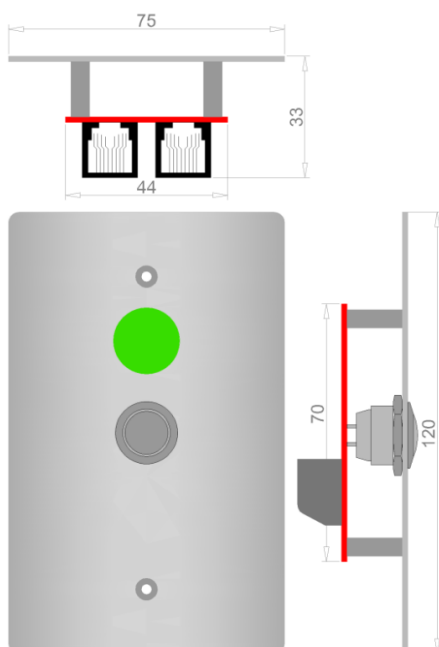
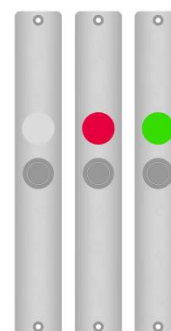
Emergency release button

Pinout programming by jumpers

Installation detail:

Flush mounted installation:

CNC cutout size: 24 x 180 mm,
corners R3 mm.



CL.TL.04.00-A2 Wall mounted INOX light

Technical characteristics:

Stainless steel front plate, dim.: 75 x 120 mm,
Depth: 33 mm.

Finishing: Brushed stainless steel with anti-vandal
stainless steel push button and client logo by laser
engraving.

Connection: 2 x RJ 45 plug 'n play

Voltage: 24 Vdc.

Functions:

Red indicator

Green indicator

Audible alarm

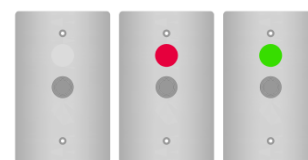
Emergency release button

Pinout programming by jumpers

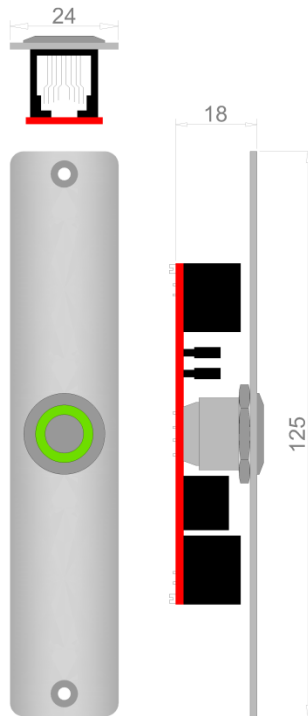
Installation detail:

Flush mounted installation:

CNC cutout size: 75 x 120 mm,
corners R3 mm.



Monopuls range: “all in one” indicators in stainless steel



CL.TL.06.00-A0

Frame mounted monopuls light

Technical characteristics:

Stainless steel front plate, dim.: 24 x 125 mm,
Depth: 18 mm.

Finishing: Brushed stainless steel with anti-vandal
stainless steel push button and client logo by laser
engraving.

Connection: 2 x RJ 45 plug 'n play

Voltage: 24 Vdc.

Functions:

Red indicator

Green indicator

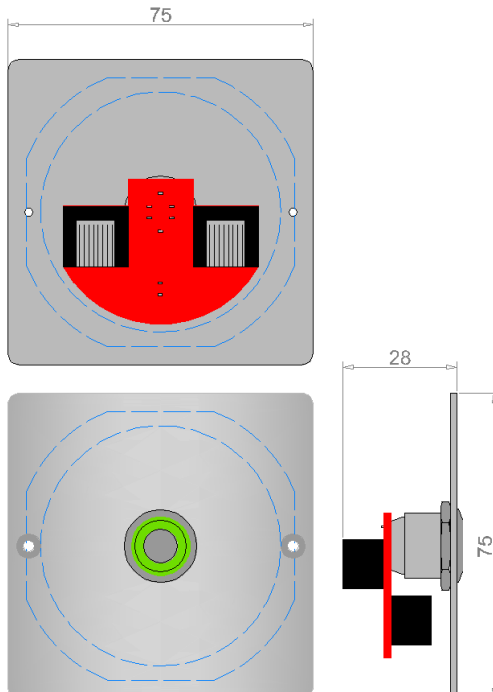
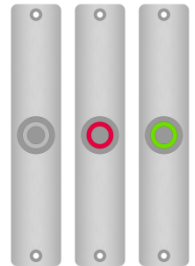
Audible alarm

Emergency release button

Installation detail:

Flush mounted installation: CNC cutout size: 24 x 125
mm, corners R3 mm.

Overlapping installation: CNC cutout 22 x 110 mm.



CL.TL.07.00-A0

Wall mounted monopuls light

Technical characteristics:

Stainless steel front plate, dim.: 75 x 75 mm,
Depth: 28 mm.

Finishing: Brushed stainless steel with anti-vandal
stainless steel push button and client logo by laser
engraving.

Connection: 2 x RJ 45 plug 'n play

Voltage: 24 Vdc.

Functions:

Red indicator

Green indicator

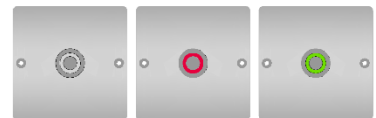
Audible alarm

Emergency release button

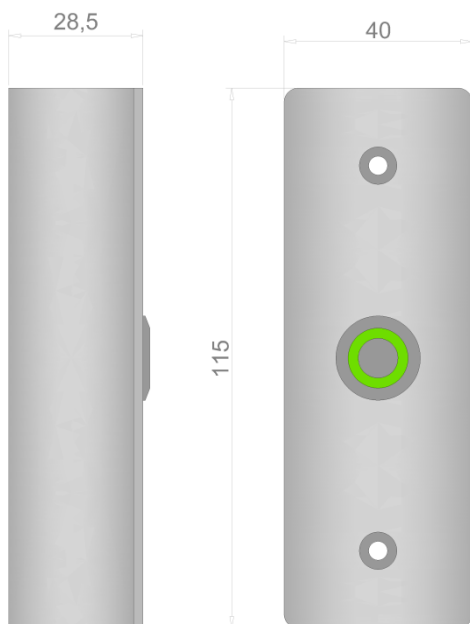
Installation detail:

Flush mounted installation: CNC cutout size: 75 x
75 mm, corners R3 mm.

Overlapping installation: hole cutter diam. 68 mm.



Monopuls range: “all in one” indicators in stainless steel



CL.TL.09.00-A0

Monopuls external light

Technical characteristics:

Stainless steel front plate, dim.: 40 x 115 mm,
Chrome plated ZAMAC back box, depth: 28.5 mm.
Finishing: Brushed stainless steel with anti-vandal
stainless steel push button and client logo by laser
engraving.

Connection: 2 x RJ 45 plug 'n play

Voltage: 24 Vdc.

Functions:

Red indicator

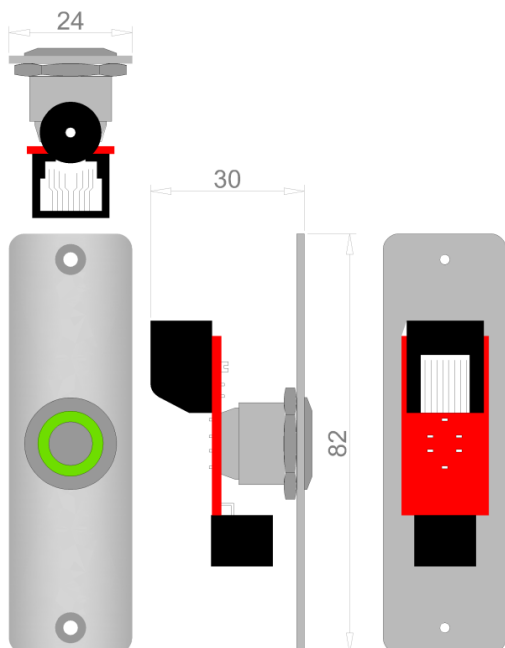
Green indicator

Audible alarm

Emergency release button

Installation detail:

The indicator can be installed
outstanding on any wall surface.



CL.TL.12.00-A0

Monopuls passbox light

Technical characteristics:

Stainless steel front plate, dim.: 24 x 82 mm,
Depth: 30 mm.

Finishing: Brushed stainless steel with anti-vandal
stainless steel push button and client logo by laser
engraving.

Connection: 1 x RJ 45 plug 'n play

Voltage: 24 Vdc.

Functions:

Red indicator

Green indicator

Audible alarm

Emergency release button

Installation detail:

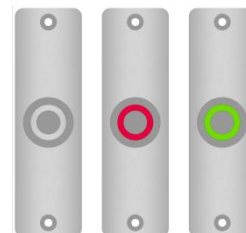
Flush mounted installation:

CNC cutout size: 24 x 82 mm, corners R3 mm.

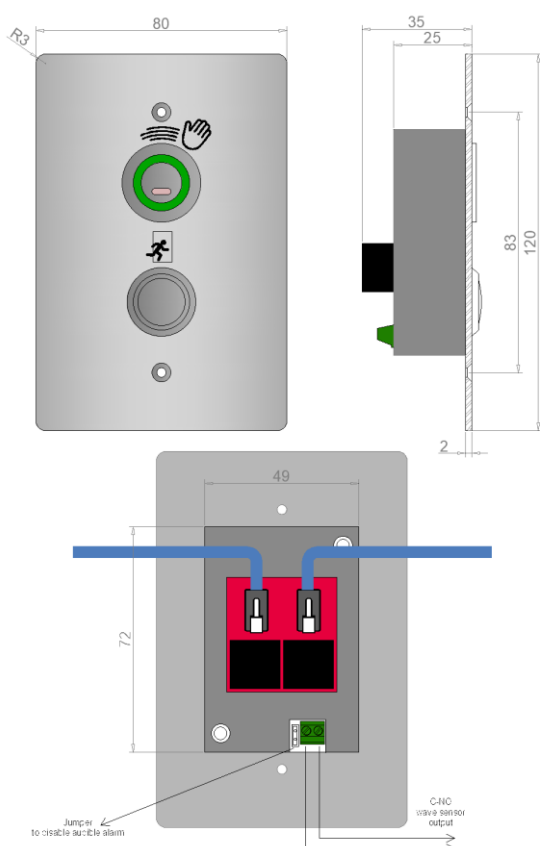
Overlapping installation:

CNC cutout 22 x 50 mm.

Onsite installation by 2 x diam. 22 mm drill.



NEW: Indicator with integrated wave sensor



CL.TL.20-A0

Wave sensor indicator

Technical characteristics:

Stainless steel front plate, dim.: 80 x 120 mm.

Finishing: Brushed stainless steel with anti-vandal stainless steel push button and client logo by laser engraving.

Connection:

- 2 x RJ 45 for indicator functions
- 1 x 2 pole screw terminal for touchless output.

Voltage: 24 Vdc.

Functions:

Red indicator

Green indicator

Audible alarm

Emergency release button

Wave sensor for door opening or door release.

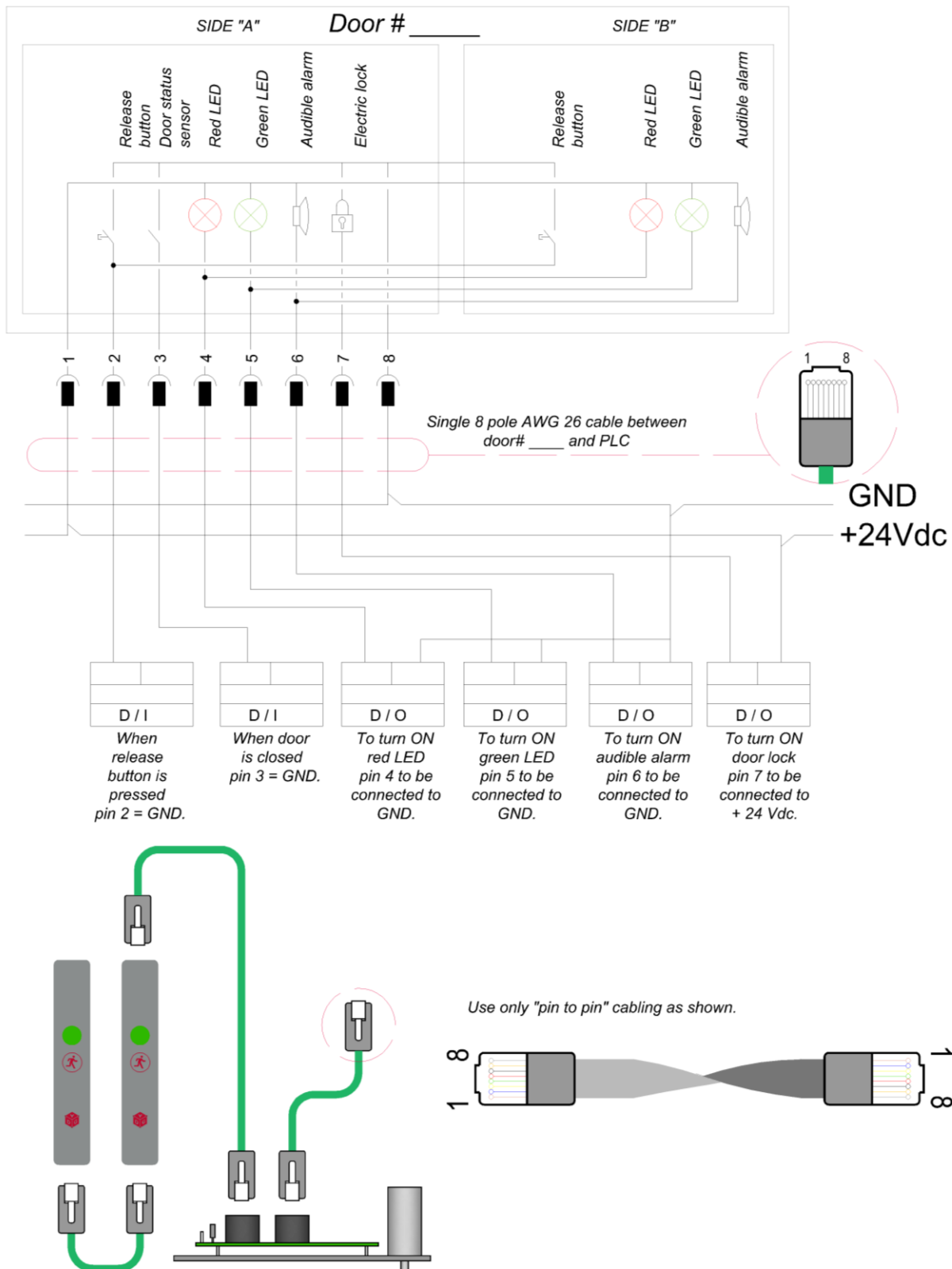
Installation detail:

On recessed double gang wall mounted box.



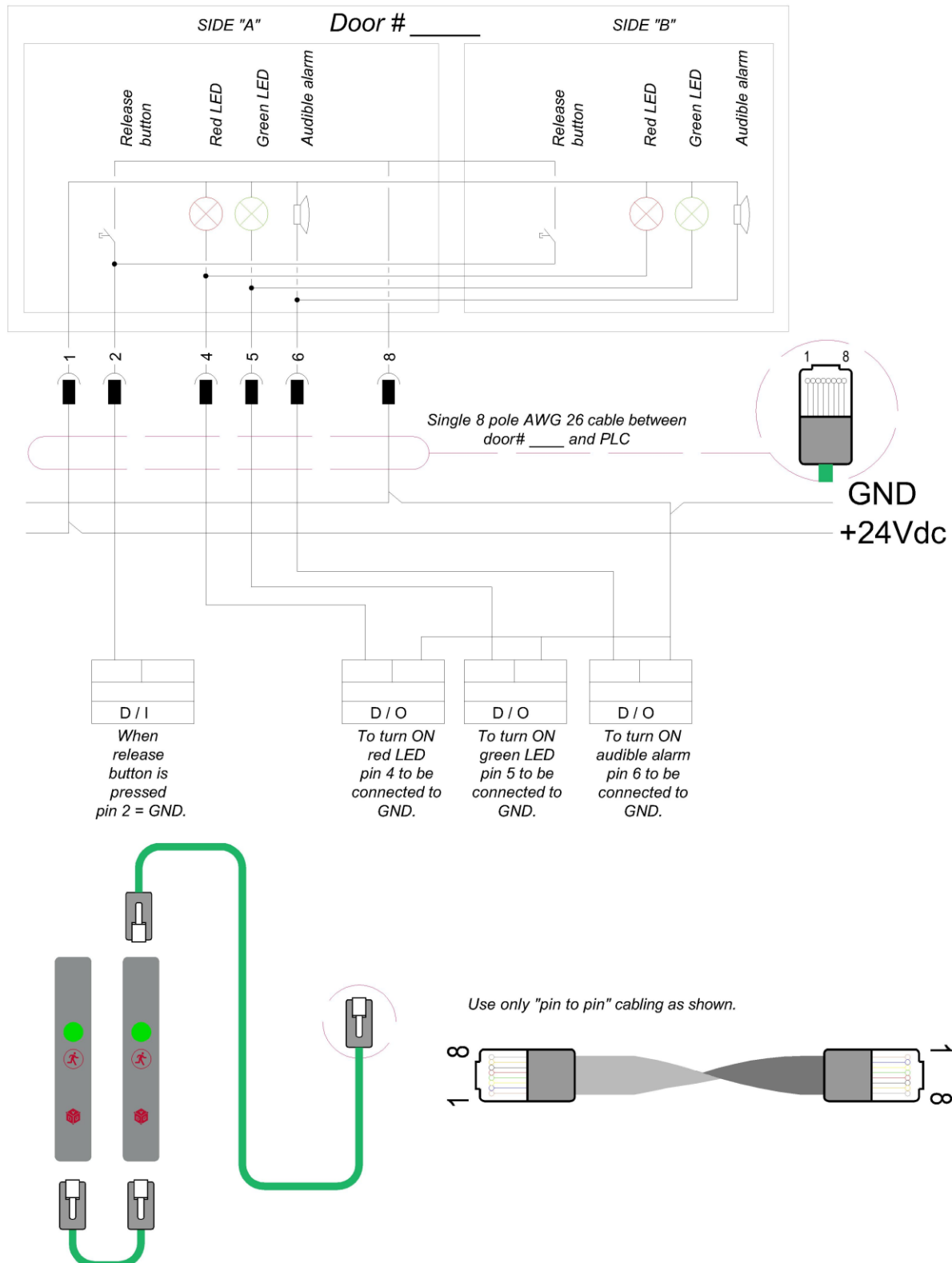
Pinout diagram

Red / green indicators with electric bolt

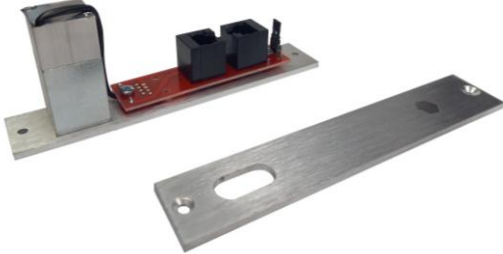


Pinout diagram

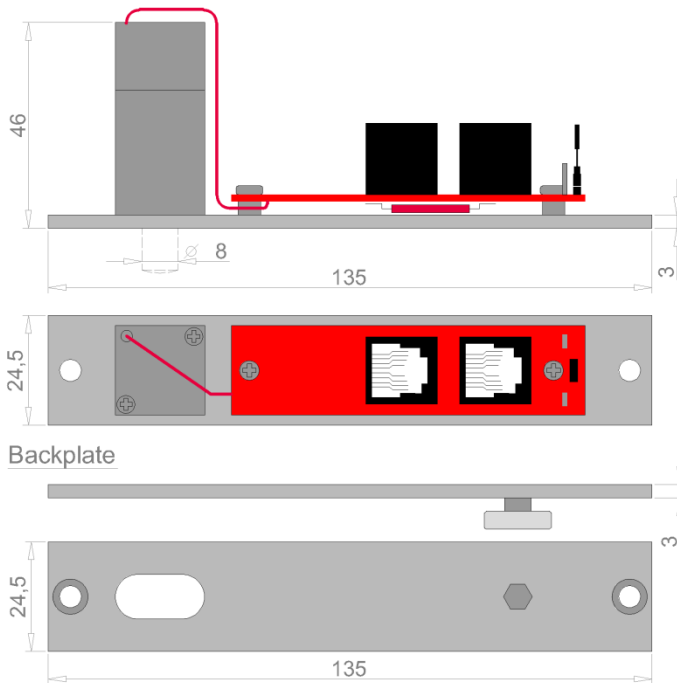
Red / green indicators



Electric locks

<i>Electric bolt</i>		
	CL.IU.00.00-A1	CL.IU.08.00-A0
<i>Electromagnet</i>		
	CL.IU.02.00-C0	CL.IU.02.00-A0
<i>Electric strike</i>		
	CL.IU.05.00-A0	CL.IU.10.00-A0

We propose FAIL – SAFE door locks with cleanroom oriented extras such as: primary and secondary door status sensor, plug 'n play connectors.



CL.IU.00.00-A1

Door frame mounted electric bolt with plug 'n play connectors

Technical characteristics:

Fail-safe (unlocked when power disconnected) electric lock with 8mm diameter bolt closing. Incorporated door status sensor and secondary leaf door status connection.

24,5 mm x 135 mm aluminum mounting plate.

Connection: 2 x RJ45 plug 'n play.

Voltage: 24 Vdc.

Power consumption: 150 mA.

Functions:

Door lock by diam. 8 mm bolt.

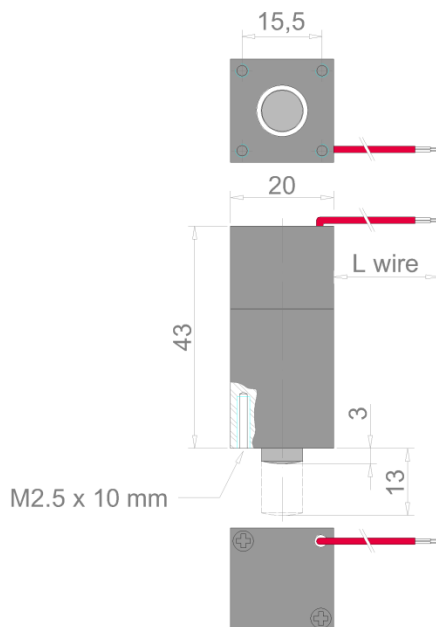
Door status sensor.

Backplate.

Installation detail:

Recessed to doorframe installation:

CNC cutout size: 24,5 x 135 mm.



CL.IU.08.00-A0

Door frame mounted electric bolt

Technical characteristics:

Fail-safe (unlocked when power disconnected) electric lock with 8mm diameter bolt closing.

Dimensions: 20 mm x 20 mm x 43 mm.

Bolt strike: 10 mm.

Connection: 2 x wires, no polarity.

L wire: 100 mm.

Voltage: 24 Vdc.

Power consumption: 150 mA.

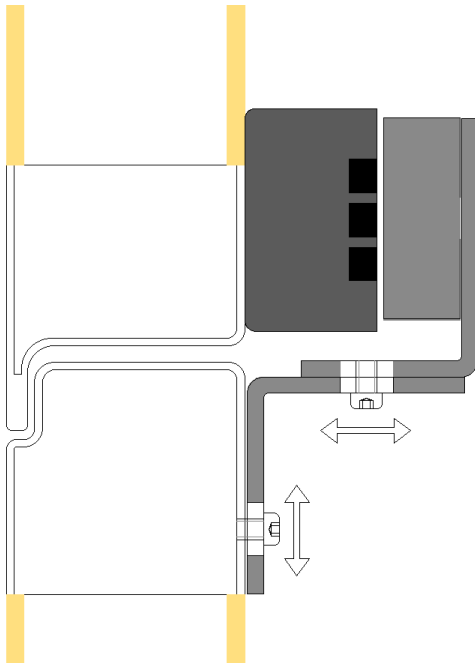
Functions:

Door lock by diam. 8 mm bolt.

Installation detail:

Mounting screws are M2.5 and are composed in a 15,5 mm square shape.





CL.IU.02.00-C0

External mounted electromagnet

Technical characteristics:

Fail-safe (unlocked when power disconnected) electromagnet with external mounting kit.

254 mm x 45 mm x 28 mm magnet dimension.

Magnet case, mounting kit material: anodized aluminum. Connection by 2 free end wires.

Voltage: 24 Vdc.

Power consumption: 225 mA.

Holding force: 300 kg.

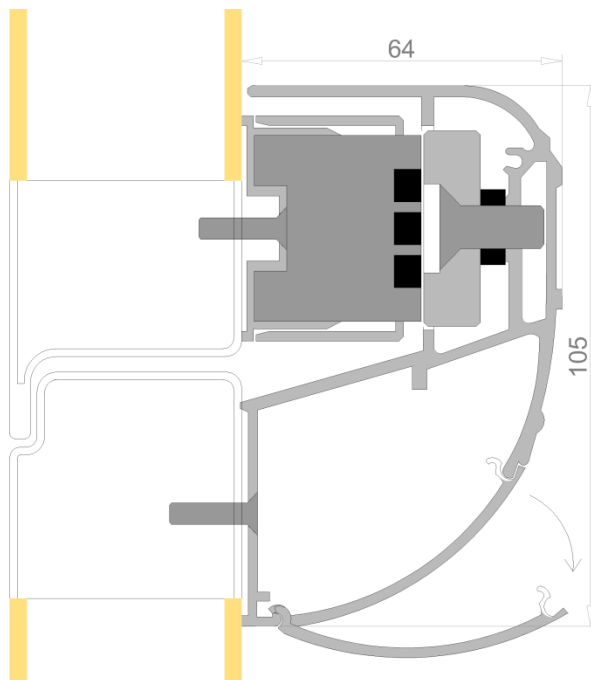
Functions:

Door lock by electromagnet.

Installation detail:

External installation by adjustable "L" + "Z" shape bracket in anodized aluminum.

Chrome plated steel counter plate.



CL.IU.02.00-A0

External mounted electromagnet

Technical characteristics:

Fail-safe (unlocked when power disconnected) electromagnet with external mounting anodized aluminum case.

405 mm x 105 x 64 mm overall dimensions.

Connection by screw terminal.

Voltage: 24 Vdc.

Power consumption: 275 mA.

Holding force: 300 kg.

Functions:

Door lock by electromagnet.

Installation detail:

External mounting by hidden screws.

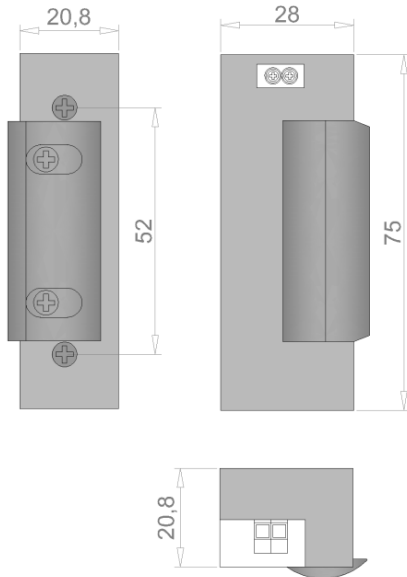
Counterplate adjustment.

Optional: plastic handle insertion into the leaf mounted case.



CL.IU.05.00-A0

Door frame mounted electric strike



Technical characteristics:

Fail-safe (unlocked when power disconnected) electric strike.

Dimensions: 28 mm x 75 mm x 20,8 mm.

Connection by screw terminal.

Voltage: 24 Vdc.

Power consumption: 150 mA.

Functions:

Door lock by electric strike.

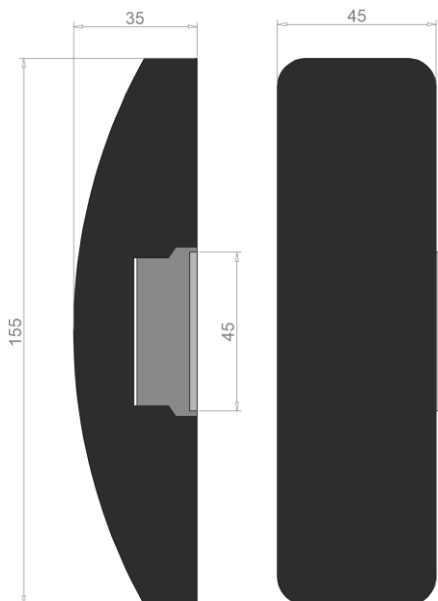
Installation detail:

Recessed to doorframe installation:

Distance between mounting holes: 52 mm.

Optional: CL.CI.01 mounting plate.

On request, fail-secure model is available.



CL.IU.10.00-A0

External mounted electric strike for emergency exit doors with panic bar

Technical characteristics:

Fail-safe (unlocked when power disconnected) electric lock with electric strike.

Dim.: 45 x 35 x 155 mm.

Voltage: 24 Vdc. Power consumption: 150 mA.

Functions:

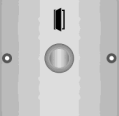
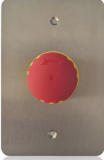
Door lock by electric strike for external mounted panic bar.

Installation detail:

Supplied with 8 pcs. 1 mm thick spacer plates.

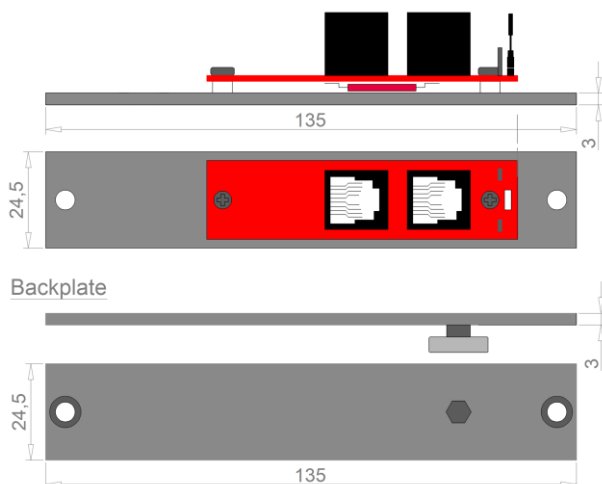


Accessories

<i>Door status sensor</i>				
	CL.PS.01.00-A0		CL.PS.03.00-A1	CL.PS.04.00-A0
<i>Plug 'n play wiring</i>				
	CL.WI.00 ... 09		CL.WI.20.00-A0 CL.WI.21.00-A0	WAUT.2c.5m WAUT.4c.5m WAUT.2c.10m WAUT.4c.10m
<i>Membranes</i>				
	CL.AM.00.00-A1		CL.AM.01.00-A1	CL.AM.02.00-A0
<i>Adaptors</i>				
	CL.AD.00.00-A0	CL.AD.01.00-A0	CL.AD.02.00-A0	CL.AD.03.00-A0
<i>Push buttons</i>				
	CL.PB.00-A0		CL.PB.01-A0	CL.PB.02-A0
<i>Emergency override</i>				
	CL.PEM-A0		CL.BGU-A0	

Wave sensors		
	WS.01-A0	WS.02-A0
Wave sensors		
	WS.03-A0	WS.04-A0
Power transfer devices		
	C2P	DL400

Door status sensors



CL.PS.01.00-A0

Recessed door status sensor

Technical characteristics:

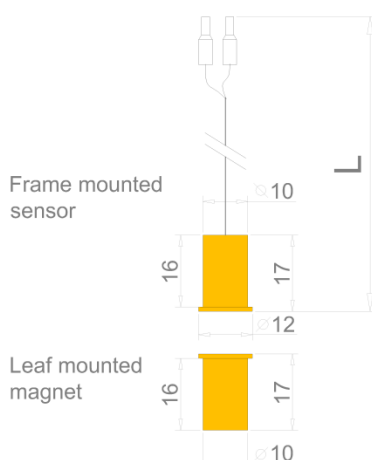
Plug 'n play door status sensor with aluminum mounting plate and double RJ45 connector. Secondary leaf door status connection possibility. 24,5 mm x 135 mm aluminum mounting plate. Connection: 2 x RJ45 plug 'n play.

Functions:

Door status sensor. Aluminum backplate with permanent magnet for door status sensor.

Installation detail:

Recessed to doorframe installation:
CNC cutout size: 24,5 x 135 mm.



CL.PS.03.00-A1

Universal door status sensor

Technical characteristics:

Frame / leaf mounted brass encased cylinder shaped sensor and magnet. Connection: 2 x wires C-NO, no polarity.

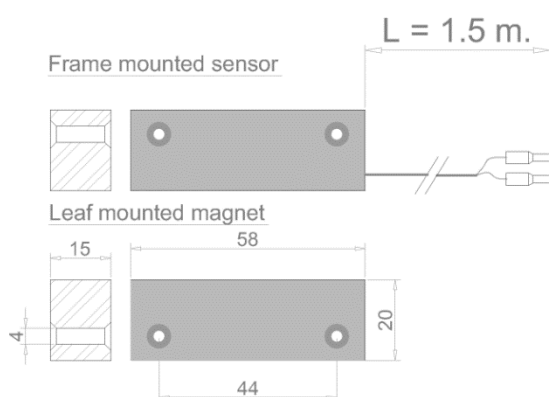
Functions:

Door status sensor.

Installation detail:

Diam. 10 mm holes by drill and fastening by glue.

L = 2 m.



CL.PS.04.00-A0

External mounted door status sensor

Technical characteristics:

External mounted aluminum case door status sensor and magnet. Connection: 2 x wires C-NO, no polarity.

Functions:

Door status sensor.

Installation detail:

External mounted.



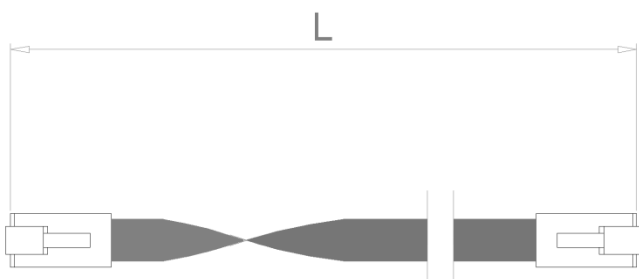
CL.WI.00 ... CL.WI.09

Technical characteristics:

8 pole flat cable with RJ 45 connectors on both ends. Connector crimping: pin to pin. AWG 26.

Standard lengths:

CL.WI.00: L = 150 mm.	CL.WI.01: L = 250 mm.
CL.WI.02: L = 500 mm.	CL.WI.03: L = 1 m.
CL.WI.04: L = 1,5 m.	CL.WI.05: L = 2 m.
CL.WI.06: L = 3 m.	CL.WI.07: L = 10 m.
CL.WI.08: L = 15 m.	CL.WI.09: L = 20 m.



Functions:

Connection between control board and electric locks; electric locks and red/green indicators.

Installation detail:

Plug 'n play insertion to RJ 45 connectors.



CL.WI.20.00-A0

CL.WI.21.00-A0

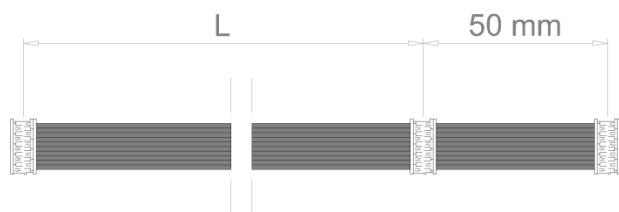
Technical characteristics:

10 pole flat cable with Lumberg Mica 10 connectors on both ends. Connector crimping: pin to pin. AWG 26.

Standard lengths:

CL.WI.20: L = 2,2 m.

CL.WI.21: L = 3,2 m.



Functions:

Connection of red / green indicator

CL.TL.11.00-A0.

Installation detail:

Plug 'n play insertion Lumberg mics 10 connectors.



WAUT.2c.5m / WAUT.4c.5m

WAUT.2c.10m / WAUT.4c.10m

Technical characteristics:

0.5 sqmm multicore cable for pushbutton, wave sensor, emergency device or door automation connections.

2c: 2 cores

4c: 4 cores

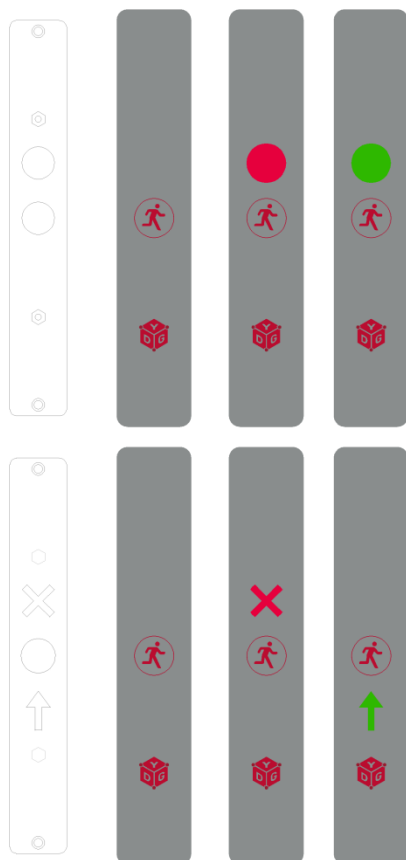
5m: 5-meter length

10m: 10-meter length.



Supplied with bootlace terminations.





CL.AM.00.00-A1

Membrane

Technical characteristics:

Translucent adhesive membrane for red green indicators. Adhesive material: 3M 467 MP. Color: Pantone 423 C.

Dimensions: 34 x 190 mm. Thickness: 300 µm.

Functions:

Protection of the indicators against regular cleaning process.

Installation detail:

Before applying the adhesive membrane, make sure that the indicator surface is clean and the fastening screws are flat to the front plate surface.

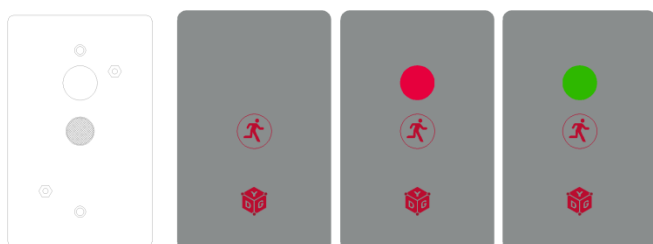
Compatible with the following indicators:

CL.TL.00.00-A1

CL.TL.02.00-A1

CL.TL.10.00-A0

CL.TL.10.00-B0



CL.AM.01.00-A1

Membrane

Technical characteristics:

Translucent adhesive membrane for red green indicators. Adhesive material: 3M 467 MP. Color: Pantone 423 C.

Dimensions: 80 x 125 mm. Thickness: 300 µm.

Functions:

Protection of the indicators against regular cleaning process.

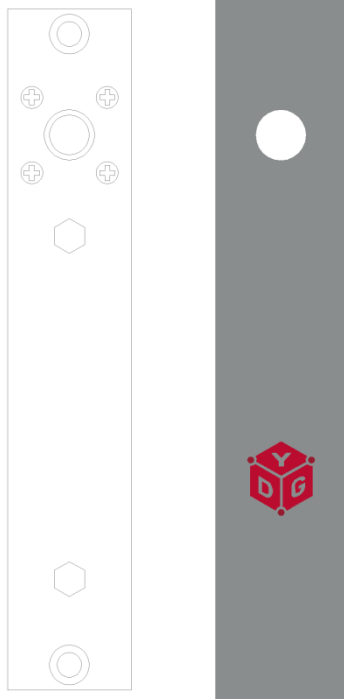
Installation detail:

Before applying the adhesive membrane, make sure that the indicator surface is clean and the fastening screws are flat to the front plate surface.

Compatible with the following indicators:

CL.TL.00.00-A1





CL.AM.02.00-A0

Membrane

Technical characteristics:

Translucent adhesive membrane for red green indicators. Adhesive material: 3M 467 MP. Color: Pantone 423 C.

Dimensions: 26 x 140 mm. Thickness: 300 µm.

Functions:

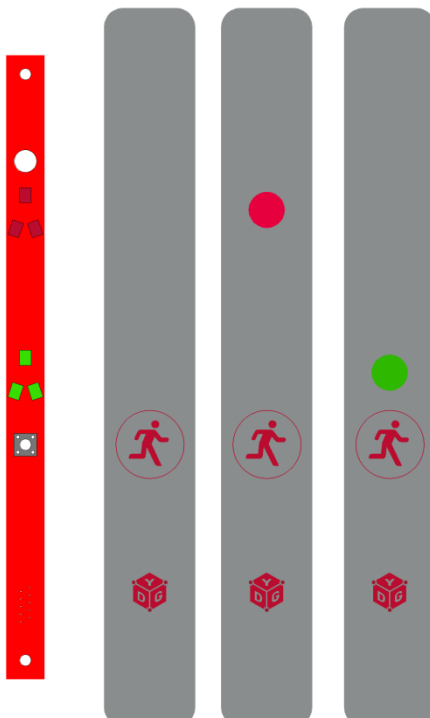
Coverage of the electric bolt mounting plate.

Installation detail:

Before applying the adhesive membrane, make sure that the electric bolt mounting plate surface is clean and the fastening screws are flat to the front plate surface.

Compatible with the following electric bolt:

CL.IU.00...



CL.AM.11.00-A0

Membrane

Technical characteristics:

Translucent adhesive membrane for red green indicators. Adhesive material: 3M 467 MP. Color: Pantone 423 C.

Dimensions: 22.5 x 190 mm. Thickness: 300 µm.

Functions:

Protection of the indicators against regular cleaning process.

Installation detail:

Before applying the adhesive membrane, make sure that the indicator surface is clean and the fastening screws are flat to the front plate surface.

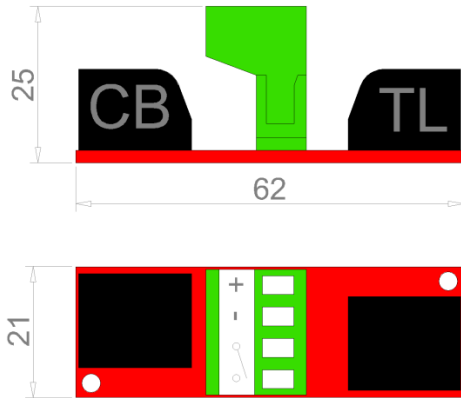
Compatible with the following indicators:

CL.TL.11.00-A0



CL.AD.00.00-A0

2 x RJ45 adaptor



Description:

PCB adaptor for electric locks and door status sensors connected by hard wires instead of plug 'n play connectors.

Dimensions: 21 x 62 x 25 mm.

Installation detail:

Cabling towards the control board and the red / green indicator is RJ 45 plug 'n play. Connection of electric lock and door status sensor is through removable screw terminal. Upon request supplied with M3 threaded brass spacer columns.

Compatible with the following indicators:

All YDG indicators except: CL.TL.11.00-A0

Compatible with the following door locks:

Any 24Vdc fail-safe door lock with power consumption below 500 mA @ 24 Vdc.

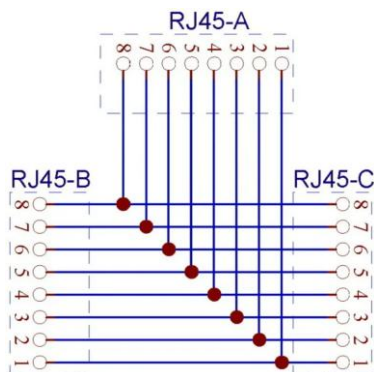
Compatible with the following door status sensors:

Any free contact C-NO sensor.



CL.AD.01.00-A0

RJ45 splitter



Description:

RJ45 female – female pin to pin splitter for wall mounted indicators junction.

Installation detail:

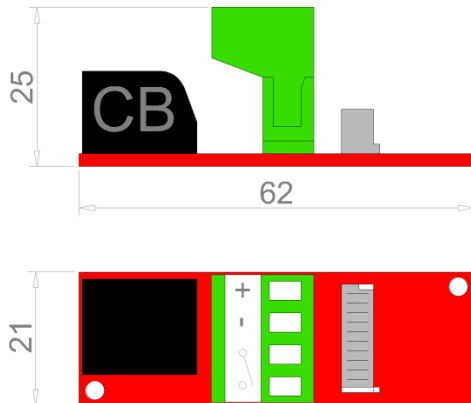
The splitter provides a solution when wall mounted indicators are installed far from each other instead of back-to-back installation so the daisy chaining of indicator is not possible or requires complicated wire running.

The splitter will create two different wire leads for the two indicators.



CL.AD.02.00-A0

1 x RJ 45 adaptor



Description:

PCB adaptor for electric locks and door status sensors connected by hard wires instead of plug 'n play connectors.

Dimensions: 21 x 62 x 25 mm.

Installation detail:

Cabling towards the control board through RJ 45 plug 'n play connector. Cabling towards red / green indicator through Lumberg Mica 10 connector.

Connection of electric lock and door status sensor is through removable screw terminal. Upon request supplied with M3 threaded brass spacer columns.

Compatible with the following indicators:

CL.TL.11.00-A0

Compatible with the following door locks:

Any 24Vdc fail-safe door lock with power consumption below 500 mA @ 24 Vdc.

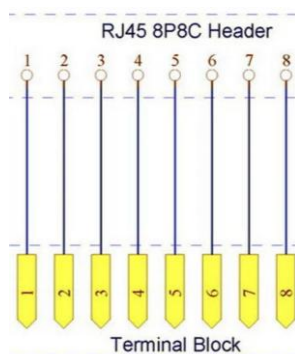
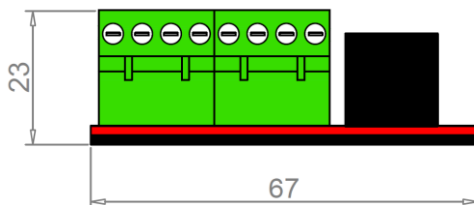
Compatible with the following door status sensors:

Any free contact C-NO sensor.



CL.AD.00.03-A0

1 x RJ45 adaptor with screw terminal



Description:

RJ45 – screw terminal adaptor for third party accessory connection to YDG control boards.

Installation detail:

The screw terminal adaptor provides a solution to use third party accessories fitted on the door with traditional wire leads. Through the appropriate connection (please refer to the “pinout diagram” in the Red / Green indicator section) YDG manufactured control boards will be able to run third party 24Vdc locks, 24 Vdc indicators, audible alarms and push button.





CL.PB.00-A0

C-NO push button – door frame mounted

Description:

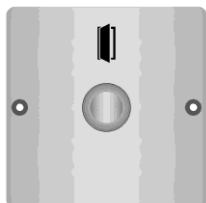
Stainless steel momentary push button.
Normally open type: C – NO.
Rounded actuator. Protection grade: IP65.

Functions:

Door release when door is normally locked / automatic door opener.

Installation detail:

24x82 mm stainless steel front plate with R3 corners.
Cable connection by 2 x screw terminal. Maximum cable section 0.5 sqmm².



CL.PB.01-A0

C-NO push button – recessed wall mounting

Description:

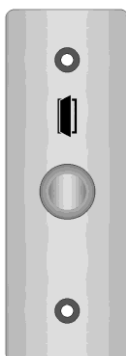
Stainless steel momentary push button.
Normally open type: C – NO.
Rounded actuator. Protection grade: IP65.

Functions:

Door release when door is normally locked / automatic door opener.

Installation detail:

75x75 mm stainless steel front plate with R3 corners.
Cable connection by 2 x screw terminal. Maximum cable section 0.5 sqmm².



CL.PB.02-A0

C-NO push button – external wall mounting

Description:

Stainless steel momentary push button.
Normally open type: C – NO.
Rounded actuator. Protection grade: IP65.

Functions:

Door release when door is normally locked / automatic door opener.

Installation detail:

40x115 mm stainless steel front plate with 28.5 mm deep chrome plated zamac case.
Cable connection by 2 x screw terminal. Maximum cable section 0.5 sqmm².



Emergency override

CL.PEM-A0

Emergency override button



Description:

Emergency release button in conformity with EN 60947-5-1, EN 60947-5-5, EN ISO 13850.

Protection level: IP66.

Mushroom type actuator with twist (left or right) release.

Functions:

Supplied with double contact, normally closed C-NC and normally open C-NO.

Installation detail:

80 x 120 mm stainless steel front plate.

Cable connection by 2 x screw terminal. Maximum cable section 1 sqmm².



CL.BGU-A0

Emergency override button



Description:

The BBG is a triple-pole emergency door release which meets security and safety needs in emergency situations. Working in conjunction with emergency exits and access control systems, the BBG enables emergency unlocking without triggering a fire alarm.

Release by reset key.

Functions:

Supplied with triple pole relay: 3x C/NO/NC.

Green LED when at rest and red when activated.

Built in audible alarm with volume adjustment.

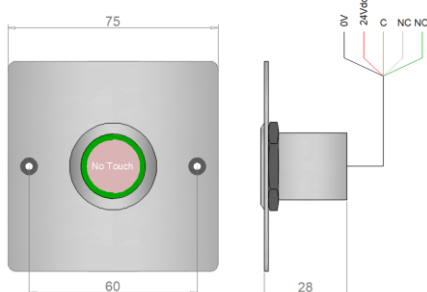
Installation detail:

90x93x45 mm external mounted plastic case.

Cable connection by screw terminal. Maximum cable section 1 sqmm².

Power input for illumination: 12/24Vdc.





WS.01-A0

Wall mounted wave sensor

Technical characteristics:

Stainless steel front plate, dim.: 75 x 75 mm,
Depth: 28 mm.

Finishing: Brushed stainless steel, client logo by laser engraving.

Connection: 1 x CO contact output with hard wire leads.

Activation within approx. 10 cm.

Voltage: 24 Vdc.

Relay activation time at every hand wave: 1 s.

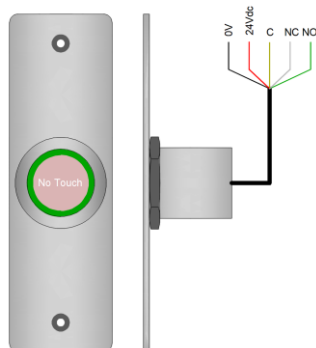
Relay rating 1A @ 24Vdc.

Functions:

- Automatic door opener.
- Normally locked door release request.
- Opposite side of access control release.

Installation detail:

Supplied with diam 68 mm mounting box.



WS.02-A0

External mounted wave sensor

Technical characteristics:

Stainless steel front plate, dim.: 40 x 115 mm,
Depth: 28 mm.

Finishing: Brushed stainless steel, client logo by laser engraving.

Connection: 1 x CO contact output with hard wire leads.

Activation within approx. 10 cm.

Voltage: 24 Vdc.

Relay activation time at every hand wave: 1 s.

Relay rating 1A @ 24Vdc.

Functions:

- Automatic door opener.
- Normally locked door release request.
- Opposite side of access control release.

Installation detail:

Supplied with external mounting box.



WS.03-A0

Frame mounted wave sensor



Technical characteristics:

Stainless steel front plate, dim.: 28 x 85 mm,

Depth: 28 mm.

Finishing: Brushed stainless steel, client logo by laser engraving.

Connection: 1 x NO contact output with hard wire leads.

Activation within approx. 10 cm.

Voltage: 24 Vdc.

Relay activation time at every hand wave: 1 s.

Relay rating 0.25 A @ 24Vdc.

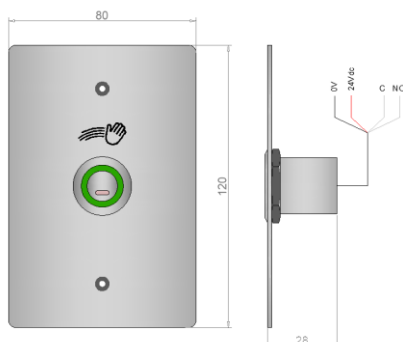
Functions:

- Automatic door opener.
- Normally locked door release request.
- Opposite side of access control release.



WS.04-A0

Wall mounted wave sensor



Technical characteristics:

Stainless steel front plate, dim.: 80 x 120 mm,

Depth: 28 mm.

Finishing: Brushed stainless steel, client logo by laser engraving.

Connection: 1 x NO contact output with hard wire leads.

Activation within approx. 10 cm.

Voltage: 24 Vdc.

Relay activation time at every hand wave: 1 s.

Relay rating 0.25 A @ 24Vdc.

Functions:

- Automatic door opener.
- Normally locked door release request.
- Opposite side of access control release.

Installation detail:

Single gang mounting box with 83 mm distance fastening holes.



C2P

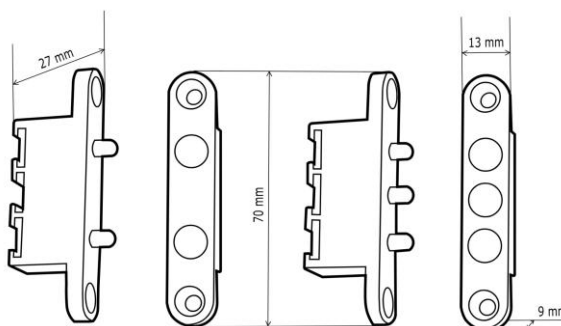
Pinned 2 pole power transfer hinge

Description:

Power transfer hinge with spring loaded contacts, to provide discreet transfer of power/signalling between a door and the frame.

The contacts operate up to 1.5A (resistive & inductive load) at 12V, and are ideal for use on swing or sliding doors to provide power/ control for electric locks, solenoids etc.

Installation detail:



DL400

Concealed door loop

Description:

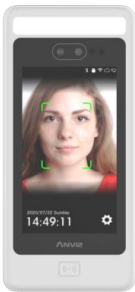
DL400 offers a safe and secure method of transferring cables from a fixed point, such as from the door frame onto the door leaf. With a metal loop for better protection, DL400 has a minimum internal diameter of 10mm, which is sufficient to handle the most common cables used in door locking/control. The GFI is a concealed door loop – mounted in the hinge line of the door, it is completely hidden when the door is in the closed position.

Installation detail:

24,5 x 290 x 20 mm recessed to door frame.



Access control

Stand alone reader			
	CL.BR.06-A0		
Web-based access control system with webserver controllers.			
	A22K – web server		
			
	K5	KPROX	KPAD
Web-based access control system with webserver readers.			
	C2 SLIM	C2 KA	FD 5



CL.BR.06-A0

Stand-alone keypad with RFID reader

Stand alone keypad with 125 kHz RFID reader. Zinc alloy housing, universal 10-24Vdc power supply. Code can be 4 - 8 digit. The output is a pulse or toggle mode relay with 2A switching current. Easy and quick installation for a standalone control. Card enrolment by admin card or by administrator code.

GENERAL CHARACTERISTICS

Number of users:	2000
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Dimensons:	110 x 76 x 22 mm.
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Connection:	Dry contact output.
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Web-based access control system with webserver controllers.

A22K Access control web server



The A22K is a powerful Web-Based IP hybrid module. The flexibility of the A22 module allows it to be set either as a 2-door controller or expander. The A22 includes an embedded web server that combines performance and simplicity enabling you to manage Users/Cards, lock or unlock doors, view system events and display controller information from any place in the world. Industry-unique and effortless card enrollment mode minimizes system start up and simplifies your life. Besides the web-based application, it's also possible to download a software that will synchronize all data to your PC. Architecture is by RS-485 bus up to 5 modules (10 readers) or IP connectivity if readers are more than 10. The control board is protected by anti-tamper sensor.

GENERAL CHARACTERISTICS

Power supply:	120 / 240 VAC, by built in power supply.
Configuration:	Auto-detection of hardware, no dip switch setting.
Number of users:	10.000
Event registration:	Up to 25.000
System capacity:	One controller can handle 2 door. In IP connectivity the maximum limit is 500 doors.
Compatible readers:	RFID card reader, key-pad.



K5



KPROX



KPAD



GENERAL CHARACTERISTICS

Dimensions:	92 x 84 x 40 mm	Dimensions:	135 x 46 x 23 mm	Dimensions:	135 x 46 x 23 mm
Technology:	13.56 MHz MIFARE Classic, DESFire EV2	Tecnology:	13.56 MHz MIFARE Classic, DESFire EV2	Tecnology:	Keypad + 13.56 MHz MIFARE Classic, DESFire EV2
Wall mounted box:	Standard diam. 67 mm	Mounting:	On wall	Mounting:	On wall
Protection class:	IP 53	Protection class:	IP 65	Protection class:	IP 65



Web-based access control system with webserver readers.



C2 Slim

TCP/IP Fingerprint + RFID reader

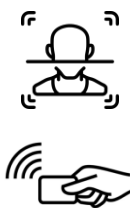
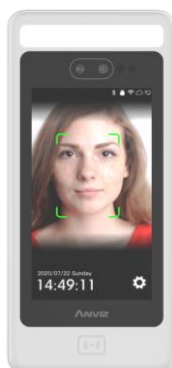
Dimensions:	50 x 159 x 25 mm.
Power supply:	12 Vdc.
RFID options:	125kHz EM & 13.56MHz MIFARE
Max users:	3.000
Webserver:	Yes.
PoE:	Yes. IEEE802.3af
Protection class:	IP 65
Relay output:	Yes.



C2 KA

TCP/IP Keypad + RFID reader

Dimensions:	50 x 159 x 25 mm.
Power supply:	12 Vdc.
RFID options:	125kHz EM & 13.56MHz MIFARE
Max users:	10.000
Webserver:	Yes.
PoE:	Yes. IEEE802.3af
Protection class:	IP 65
Relay output:	Yes.



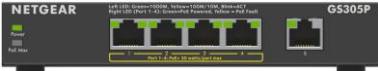
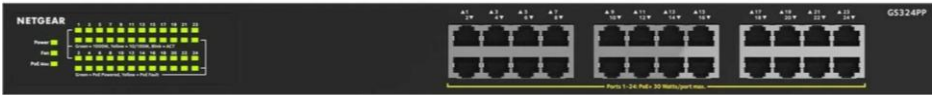
FD5

TCP/IP Face recognition + RFID reader

Dimensions:	88 x 236 x 16 mm.
Power supply:	12 Vdc.
RFID options:	125kHz EM & 13.56MHz MIFARE
Max users:	50.000
Webserver:	Yes.
PoE:	No.
Protection class:	IP 65
Relay output:	Yes.
Identification distance:	0.3 – 2 m.
Identification speed:	<300ms
Technology:	AI deep learning architecture. Recognition also with facial mask. Dual Core Linux Based 1Ghz CPU with enhanced AI computing power.



IP station intercom

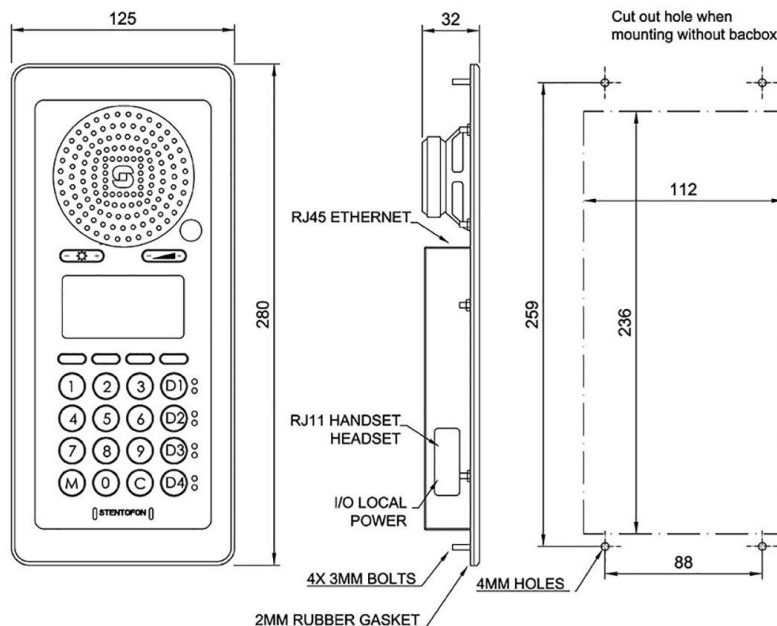
IP Station for Clean Room	
	IPCROR
Mini intercom	
	TMIS1
Control room terminal	
	IPDMH-V2
PoE switch	
	SW4
	
	SW24

*YDG is your partner also for intercom solutions in cleanrooms.
We design and supply pre-configured IP intercom solutions complete of
PoE switch for a plug 'n play installation.*



IPCROR IP station Intercom

The IPCROR IP Station for Cleanrooms is an advanced intercom station intended for use in cleanrooms environments. The station front plate is totally flat and without any holes to minimize bacteria accumulation. With a large backlit display and audio technology the station allows users to read caller ID, listen and talk at a distance. The station has an excellent audio quality. This is reached through a set of advanced technologies such as active noise filtering, acoustic echo cancellation, wide band audio codec, and high-power audio outputs.



Terminal dimensions



Optional flush mounting backbox

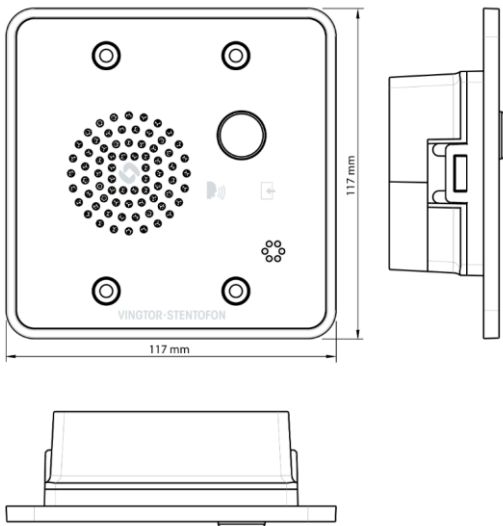
GENERAL CHARACTERISTICS

Power supply:	Power over Ethernet, IEEE 802.3 a-f, Class 0 Local power 19 – 27 VDC, Idle 4W, max. 12W
Dimensions:	125 x 280 x 30 mm.
User interface:	Backlit graphical display, 35 mm x 68 mm, 4 function keys, 4 programmable direct access keys (DAK), Full keypad, Call indication LED
Protection class:	IP-65 front access (silicone must be used around edges when mounting)
Connections:	RJ45 (Ethernet) - RJ11 (Handset & Headset), Pluggable screw terminals (I/O, local power, external speaker)



TMIS1
Mini Intercom

TMIS1 is an ideal solution for a cleanroom entrance to call a dedicated IPCROR terminal by pressing simply the red button present on the faceplate. The only connection necessary is the ethernet cable connected to the switch that will both supply power and communication to the module. The terminal is full duplex, so bidirectional real-time communication is possible with the mating terminal. Nevertheless the small dimension the sound pressure level granted at 1 meter distance is 90 dB. Noise cancelling of statis and dynamic sources.



Terminal dimensions



Optional flush mounting backbox

GENERAL CHARACTERISTICS	
Power supply:	Power over Ethernet, IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)
Dimensions:	117 x 117 x 39 mm.
Faceplate material:	2 mm / 0.12" PMMA, colour printed on back side
Protection class:	IP-42
Connections:	1 x RJ45 (Ethernet)



Control room terminal



IPDMH-V2 Control room terminal

The IPDMH-V2 IP Desktop Master with handset is a general purpose intercom station intended for use where a desktop station is the most practical choice. It features a large high contrast display with backlight which allows important information about connections to be shown very clearly.

The terminal features superb audio quality. This is enabled through a set of advanced technologies such as active noise filtering, acoustic echo cancellation, a wide band audio codec, and high power audio output.

GENERAL CHARACTERISTICS	
Power supply:	Power over Ethernet, IEEE 802.3 a-f, Class 0 Idle 4W, max. 8W
Dimensions:	225 x 75 x 176 mm.
Weight:	0.7 kg
Display:	Backlit display, 35 x 68 mm (64 x 128 pixels)
Protection class:	IP-22
Audio output:	1.5 Watt, 85 dB audio pressure 1m from speaker
Connections:	2 x RJ45 (Ethernet) 10/100 Mbps

CE

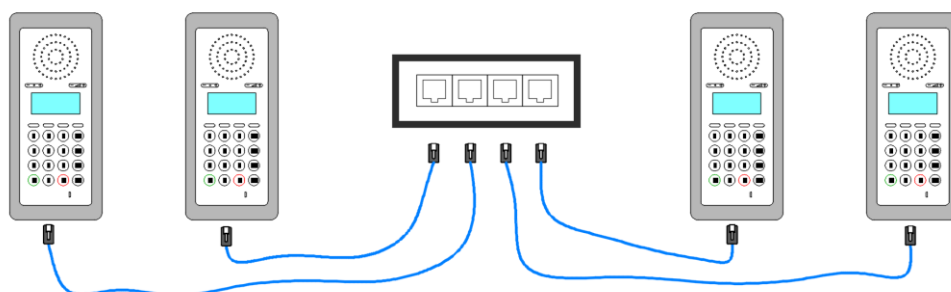
SW4 4 port PoE switch



The unmanaged switches provide power and data from a single Ethernet (CAT-5e) cable to IP station intercoms. All ports support PoE/PoE+ up to 30W per port, which makes them the perfect switches for deploying VoIP Phones.

GENERAL CHARACTERISTICS

PoE power budget:	63 W
Switch type:	Unmanaged
PoE ports:	4
Network speed:	1 Gbps
Dimensions:	158 x 101 x 29 mm.



SW24 24 port PoE switch



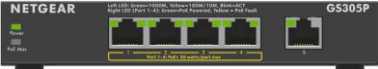
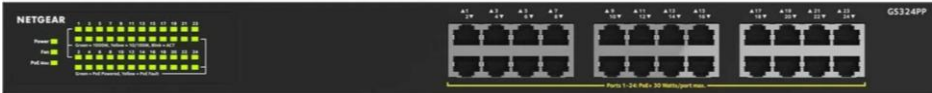
The unmanaged switches provide power and data from a single Ethernet (CAT-5e) cable to IP station intercoms. All ports support PoE/PoE+ up to 30W per port, which makes them the perfect switches for deploying VoIP Phones.

GENERAL CHARACTERISTICS

PoE power budget:	380 W
Switch type:	Unmanaged
PoE ports:	24
Network speed:	1 Gbps
Dimensions:	440 x 204 x 43 mm.



Cleanroom clock

Digital cleanroom clock	
	ECO-SLH-DC
PoE switch	
	SW4
	
	SW24

ECO-SLH-DC Cleanroom clock



The ECO-SLH-DC is optimally suited for use in operating rooms, clean room environments, chemical plants, labs, as well as in the food and beverage industry.

Continuous display of time, date, temperature or stopwatch. Alternating display of time, date, calendar week, temperature, humidity, and atmospheric pressure, with customizable intervals from 0-60 seconds for each display. Wide viewing angle (160°). Clock frame made of stainless steel (AISI 304, brushed). Anti-reflection front cover made of polycarbonate, including a filter layer for optimal readability.

Standard colour: red.

Colours on request:



A
yellow



G
green



PG
pure green



B
blue

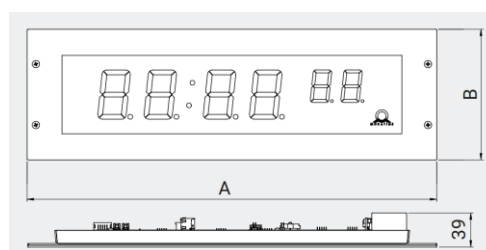


W
white

GENERAL CHARACTERISTICS

Power supply: Power over Ethernet, PoE (IEEE 802.3af class 0)

Dimensions:



A: 380 mm.

B: 150 mm.

User interface: DHCPv4, DHCPv6 / manual configuration of the clock parameters or configuration via web interface

Protection class: IP-54

Synchronization: NTP multicast or unicast synchronization, powered over Ethernet (PoE) or mains.

RTC backup/ quartz-based time maintenance
With Mains power supply from lithium battery: > 2 years (without power supply) / > 6 years (with power supply).
With PoE power supply no time maintenance.

Connections: RJ45 (Ethernet) + temperature / humidity sensor / wall mounted push button for stop watch activation.



Door automations

Automation for hinged doors		
	Single leaf DAB 105 - A.B.1A-A0	Double leaf DAB 105 - A.B.2A-A0
Automation for sliding doors		
	Single leaf DAS200 - A.S.1A-xxx-A0	Double leaf DAS200 - A.S.2A-xxx-A0
Roll-up doors		
	SOFT RESET	

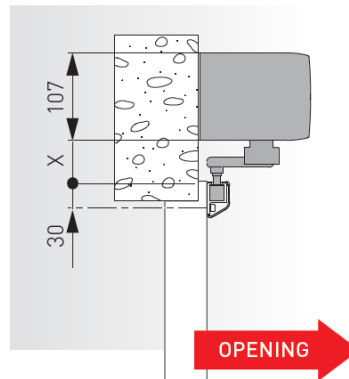
Automation for hinged doors

DAB 105



Electromechanical automation for swing doors up to 200 kg. A modular and intelligent solution offering the perfect response for the needs of any application. The ESA and ESE auxiliary configuration cards may be used to customise the automation with numerous additional functions. Door leaf width: 700 – 1200 mm. **Low energy configuration.** Push and go function available.

Standard kit with sliding movement arm:



- Maximum capacity up to **200 kg**
- **24 Vdc** gear motor
- **Encoder** kinematics control
- Closing action **with spring and motor**
- **Settable** closing force and opening delay

GENERAL CHARACTERISTICS

Power supply:	100 to 240 Vac, -15%/10%; 50/60 Hz. Consumption 75W max.
Dimensions:	111x131x720 mm.
Endurance test:	1 million cycles.
Opening:	Motor opening, motor and spring closing.
Opening / closing time	3 – 6 sec.
Door wing max. opening angle:	110°
Hold open time:	1.5 – 30 sec.

Optional accessories:

			
Articulated movement arm	Detection sensor in closure	20-, 50- or 70-mm shaft extension kit	Key operated function selector



Automation for sliding doors

DAS 200



Automation for sliding doors. DAS operator is conceived to cater for all possible applications with precision and in complete safety. Smart start-up mode with self-acquisition function, including automatic detection and recognition of:

- Passage opening
- Door weight
- Presence and type of lock devices (standard and anti-panic)
- Emergency and backup batteries

Superior energy efficiency with a switching power supply unit offering a wide range of operating voltages.

Digital programming with over 90 parameters including speed, timer, position and emergency function parameters.

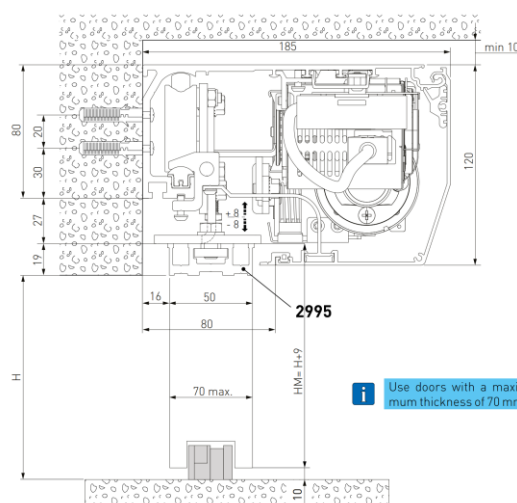
DAS200 is designed around the needs of **convenience** and **safety** of all customers, using the **most advanced technologies** and **premium** materials and components.

Because of that, it can also offer great performances in terms of **clear passage opening**, **maximum weight of the wings**, which can be mounted on DAS200, and **opening** and **closing time** performances

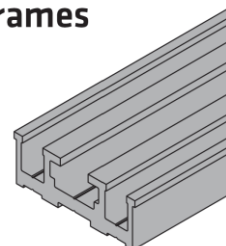
GENERAL CHARACTERISTICS

Power supply:	100 ÷ 240 Vac, -10%/+10%; 50/60 Hz. Consumption 75W max.
Max. wing weight:	120 kg (1 wing) 200 kg (2 wings)
Clear passage:	715 - 3215 mm (1 wing) 790 - 3240 mm (2 wings)
Hold force adjustment:	YES
Obstacle detection (stop while opening or reverse while closing):	YES
Hold open time:	0 – 60 sec.
Product dimensions (HxWxL):	120 x 185 x L mm
Accessories power supply:	24 Vdc/0.64 A

Leaf installation detail by “2995” general purpose attachments for door leaves:



2995 for commercial frames



Soft reset



Soft Reset is a compact self-reinserting roll-up door with a fully flexible curtain and soft bottom edge. The door offers improved looks, excellent sealing and easy operation. The Soft Reset is designed for fast installation and easy operation. The quick opening and closing cycles and the self-reinserting function of the curtain reduce the risk of downtime after a crash and make this door the perfect solution for a smooth and trouble-free process flow. The zippers are running in tight side guides, providing excellent sealing. They minimize the passage of air and infiltration of dirt. Optional gaskets are available in order to enhance the insulation capacity of the door. The frame of the Soft Reset has a streamlined and robust construction. The upper cover with its sloping top is good-looking and easy to clean. The rounded PVC side covers are a handsome addition to finish off the overall design.

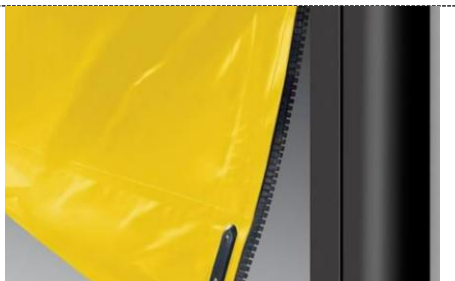
GENERAL CHARACTERISTICS	
Max. dimensions (wxh):	4500 x 4600 mm.
Standard metal frame:	Galvanized steel. Optional: stainless steel or RAL coated steel.
Inverter:	YES
Wind resistance:	Class 2
Max. opening speed:	2.3 m/s
Curtain protection features:	Self-reinserting curtain
Traffic volume:	High
Application:	Internal
Emergency release:	Crank



User friendly operation



Soft bottom edge



Low maintenance



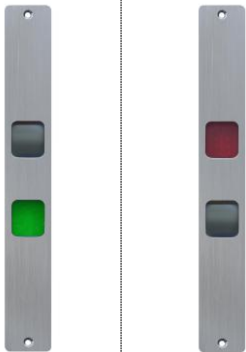
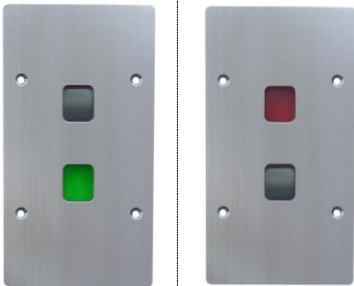
Pneu Lock[®]

Pneumatic door interlocking system

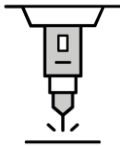


Compressed air solutions are our daily business. We design and realize tailor made pneumatic control board for EX hazard departments.

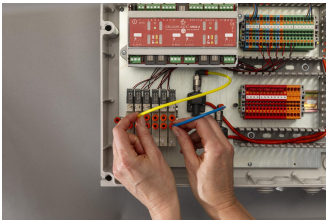
Product range

	Frame mounted pneumatic indicator	Wall mounted pneumatic indicator	Eyeball pneumatic indicators	
Red green indicators				
	PL.TL.02.00-A2	PL.TL.01.00-A2	PL.TL.00.00-A0	PL.TL.00.00-B0

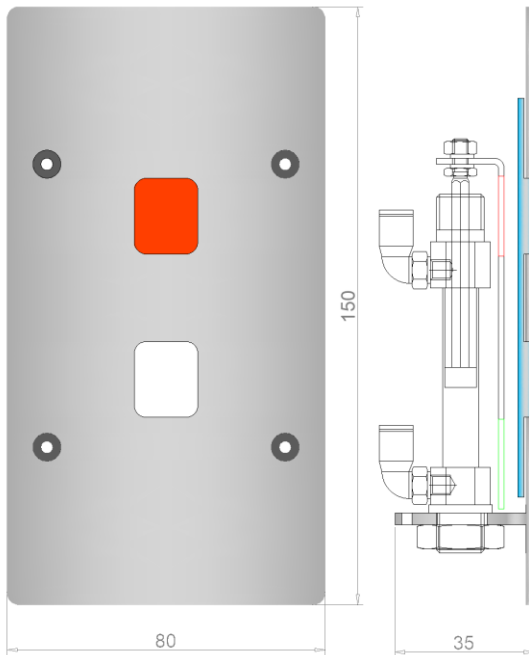
Request stainless steel indicators with **YOUR LOGO** laser marked on the frontplate.



Door position sensor	Door lock unit	Emergency button	Pneumatic beacon	Conductive tubing
				
PL.PS.00-A0	PL.IU.00-A0	PL.EB.00-A0	PL.AS.00-A0	PL.WI.00-A0

	
True pneumatic control boards	Hybrid electro – pneumatic control boards

Red / green indicators



PL.TL.01.00-A2

Wall mounted red / green indicator

Technical characteristics:

Pneumatic red / green indicator with push to connect fitting.

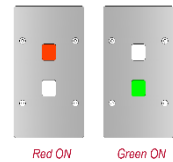
Operating pressure 2 – 8 bar.

Semi rigid tube connection diameter 4 mm.

Functions:

Red indicator.

Green indicator.



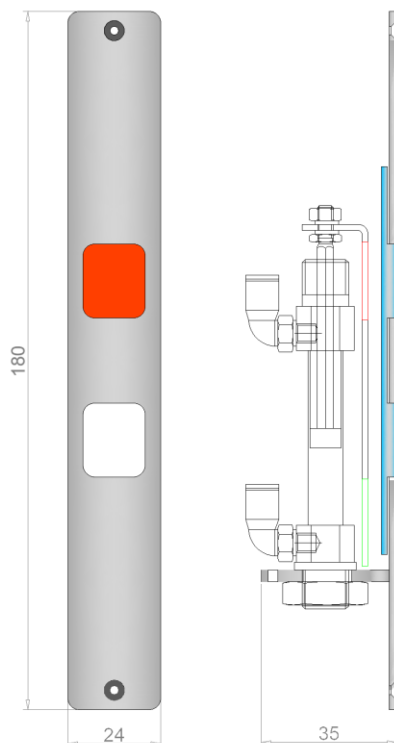
Installation detail:

Flush mounting to modular wall by 80 x 150 CNC milling. On request supplied with external or flush to wall box.

ATEX certification:

II 2G Ex h IIB T4...T3 Gb X

II 2D Ex h IIIC T89 °C...T109 °C Db X



PL.TL.02.00-A2

Door frame mounted red / green indicator

Technical characteristics:

Pneumatic red / green indicator with push to connect fitting.

Operating pressure 2 – 8 bar.

Semi rigid tube connection diameter 4 mm.

Functions:

Red indicator.

Green indicator.

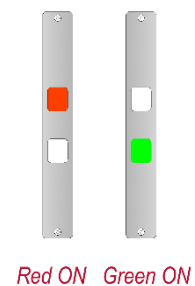
Installation detail:

Flush mounted installation:
CNC cutout size: 24 x 180 mm,
corners R3 mm.

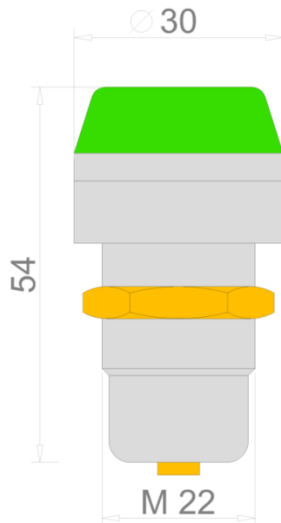
ATEX certification:

II 2G Ex h IIB T4...T3 Gb X

II 2D Ex h IIIC T89 °C...T109 °C Db X



Red / green indicators



PL.TL.00.00-A0 Eyeball green indicator

Technical characteristics:

Pneumatic green indicator with push to connect fitting.

Operating pressure 2 – 8 bar.

Semi rigid tube connection diameter 4 mm.

Operating temperature: -5 / +50 °C.

Functions:

Green indicator.

Installation detail:

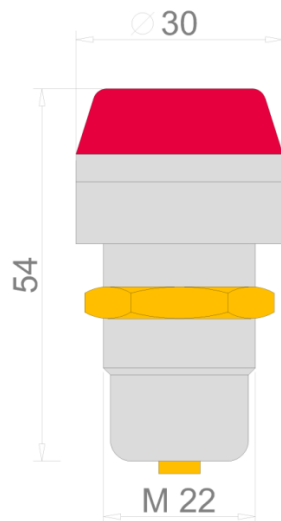
Mounting hole diameter 22 mm.

Direct mounting to door frame or by mounting plate

cod.: PL.CI.01-A0.

ATEX certification:

II 2 GD c IIB 65°C(T6)X



PL.TL.00.00-B0 Eyeball red indicator

Technical characteristics:

Pneumatic red indicator with push to connect fitting.

Operating pressure 2 – 8 bar.

Semi rigid tube connection diameter 4 mm.

Operating temperature: -5 / +50 °C.

Functions:

Red indicator.

Installation detail:

Mounting hole diameter 22 mm.

Direct mounting to door frame or by mounting plate

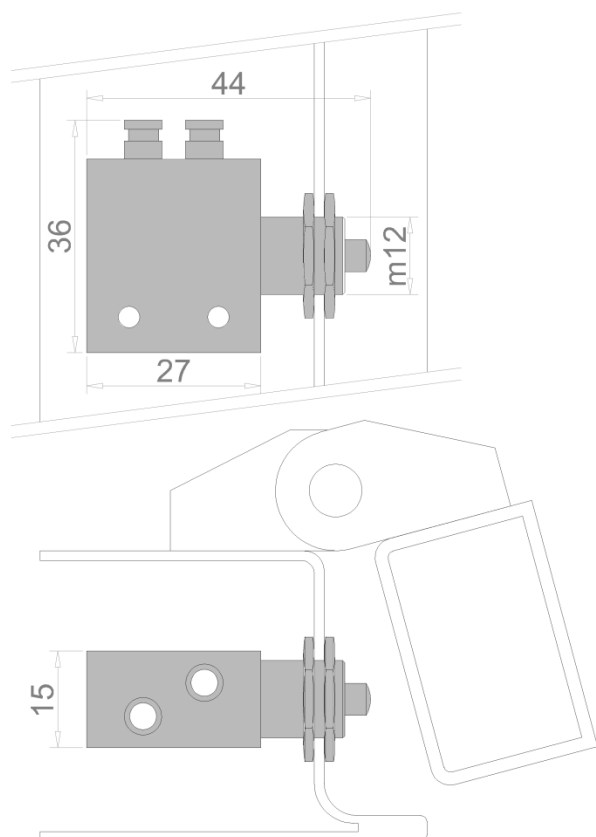
cod.: PL.CI.01-A0.

ATEX certification:

II 2 GD c IIB 65°C(T6)X



Door status sensor



PL.PS.00-A0

Door status sensor

Technical characteristics:

Pneumatic door status sensor for hinged door application.

Operating pressure 2 – 8 bar.

Semi rigid tube connection diameter 4 mm.

Operating temperature: -5 / +50 °C.

Functions:

Door status sensor.

Installation detail:

Diameter 12 mm hole at the vertical jamb profile at the hinge side.

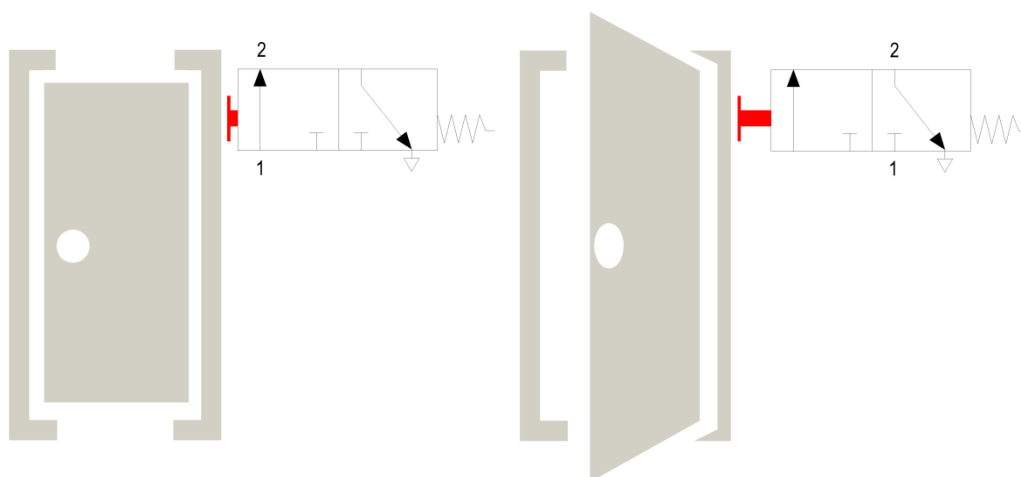
Nr.2 M12 nuts are included for the correct regulation of the sensor sensibility at door closing.

ATEX certification:

II 2G Ex h IIC T5 Gb X -10°C

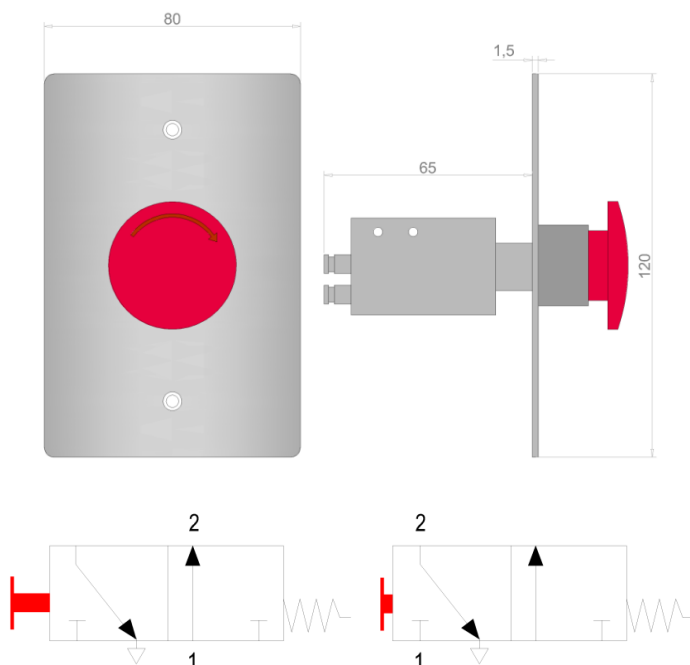
< Ta < 60°C

II 2D Ex h IIIC T100°C Db X



When door is closed, airflow is ON. When door is open, airflow is cut.

Emergency release / Door lock unit



Emergency button in rest state, airflow is ON.
Emergency button is pressed, air flow is cut.

PL.EB.00-A0

Emergency release button

Technical characteristics:

Pneumatic emergency release button for pneumatic interlocking systems with door lock.

Operating pressure 2 – 8 bar.

Semi rigid tube connection diameter 4 mm.

Operating temperature: -5 / +50 °C.

Functions:

Door release, maintained type. Twist to reset.

Installation detail:

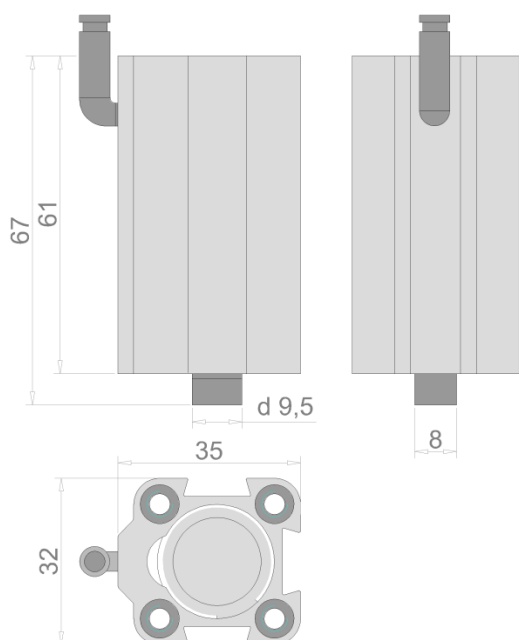
The front plate has nr.2 mounting holes at the distance of 85 mm.

It is also possible to install the front plate to its dedicated stainless steel external mounting case: PL.CI.03.00-A0.

ATEX certification:

II 2G Ex h IIC T5 Gb X -10°C < Ta < 60°C

II 2D Ex h IIIC T100°C Db X



PL.IU.00-A0

Door lock unit

Technical characteristics:

Pneumatic bolt type door lock.

Operating pressure 2 – 8 bar.

Semi rigid tube connection diameter 4 mm.

Operating temperature: -5 / +50 °C.

Functions:

Door lock.

Installation detail:

The lock can be installed directly recessed into the door frame by nr.4 M5 screws.

It is also possible to install the lock to its dedicated stainless steel mounting plate: PL.CI.06.00-A0

ATEX certification:

II 2G Ex h IIC T6 GbX

II 2D Ex h IIIC T85°C DbX

- 25°C < T < 60°C



Conductive tubing / Acoustic beacon



PL.WI.00 **Conductive tubing**

Technical characteristics:

Polyamide, conductive piping for connections in explosion hazard environment.

External diameter: Ø 4 mm.

Internal diameter: Ø 2,5 mm.

Wall thickness: 0,75 mm.

Color: black.

Superficial resistivity: < 10⁶ Ω/cm.

Working temperature: From -20°C to +60°C.

Sold in coils of 100 meters.

Functions:

Connection between pneumatic control board and door mounted accessories.

ATEX certification:

These tubes satisfy the requirements for the 2GD CATEGORY and they can be put in 1,21,2,22 ZONES.



PL.AS.00 **Pneumatic beacon**

Pneumatic beacon for door interlock alarm signaling, such as simultaneous opening of normally unlocked interlocked doors or activation of emergency override.

The beacon is supplied with pressure regulator in order to set the volume.

Place the beacon above the false ceiling.

Mounting kit included.

Sound pressure level: 118 (2m) dB(A)

Frequency: 831 Hz

Operating temperature: -30 °C – 80 °C

Operating relative humidity: 30 – 80 %

Continuous blowing: 1 hour

Main materials: PP, Steel, ABS



True pneumatic control boards

YDG offers fully pneumatic door interlocking control boards. Just by the supply of 6 bar compressed air, connected through a 6 mm flexible tube, the control board will manage pneumatic door status sensors, red / green indicators, door locks, push buttons and audible alarm through an acoustic horn.

The pneumatic control boards are built upon request and are available of the following configurations:

	Control board	Doors	Logic	Recovery time option	Door status sensor 	Red / green indicator 	Audible alarm 	Door lock 	Emergency push button 
PNEUMATIC DOOR INTERLOCKING CONTROL BOARDS WITHOUT DOOR LOCK " ONLY SIGNALLING "	PL.CB.2P. TL.L1	2	Room logic	✓	✓	✓	✓	✗	✗
	PL.CB.3P. TL.L1	3	Room logic	✓	✓	✓	✓	✗	✗
	PL.CB.3P. TL.L3	3	Corridor logic	✓	✓	✓	✓	✗	✗
	PL.CB.4P. TL.L1	4	Room logic	✓	✓	✓	✓	✗	✗
	PL.CB.4P. TL.L2	4	3+1 logic	✓	✓	✓	✓	✗	✗
	PL.CB.4P. TL.L3	4	Corridor logic	✓	✓	✓	✓	✗	✗
PNEUMATIC DOOR INTERLOCKING CONTROL BOARDS WITH DOOR LOCK	PL.CB.2P. TL.IU.L1	2	Room logic	✓	✓	✓	✓	✓	✓
	PL.CB.3P. TL.IU.L1	3	Room logic	✓	✓	✓	✓	✓	✓
	PL.CB.3P. TL.IU.L3	3	Corridor logic	✓	✓	✓	✓	✓	✓
	PL.CB.4P. TL.IU.L1	4	Room logic	✓	✓	✓	✓	✓	✓
	PL.CB.4P. TL.IU.L2	4	3+1 logic	✓	✓	✓	✓	✓	✓
	PL.CB.4P. TL.IU.L3	4	Corridor logic	✓	✓	✓	✓	✓	✓

Hybrid electro - pneumatic control boards

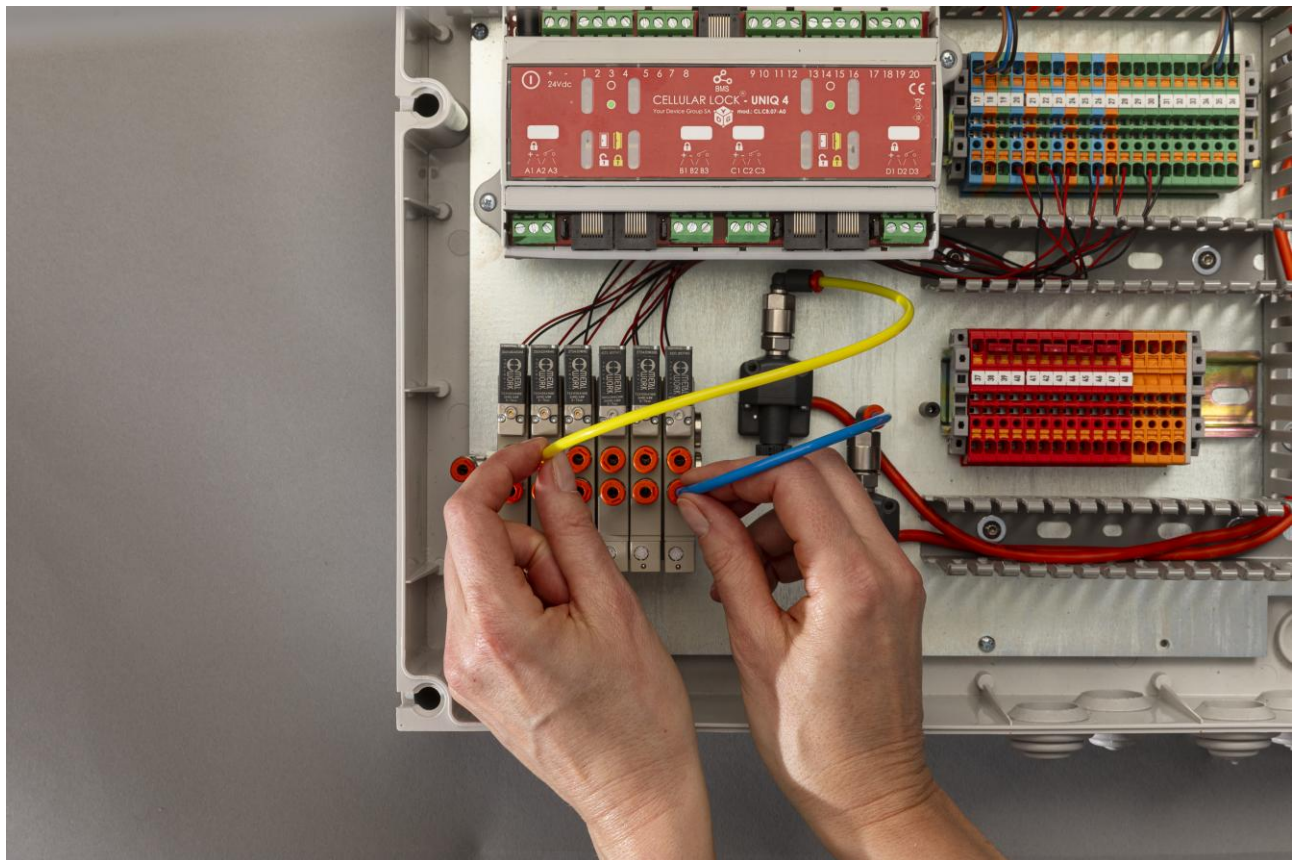
Tailor made interlocking control boards are our passion

YDG will develop your hybrid cleanroom door interlocking control boards by merging pneumatic and electronic signals in the same system.

All hybrid boards are studied, designed and manufactured on request and will offer the clients a wide range solutions when creating interlocking systems:

- Between doors in explosion hazard environments and doors in safe zones.
- Pneumatic accessory equipped doors with electronic badge reader.
- Pneumatic interlocking system interfaced with the PLC of a production machine.
- Automatic (electric engine driven) door interlocked with a pneumatic accessory equipped door.

Share your case and YDG will study your own, **custom** interlocking control board!



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