CDVI

Security to Access

SERSYS

2 YEAR WARRANTY



E-DAS

Motorised Fail-Safe Electric Single or Double Door Kits

RoHS CE

EN

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2] PRODUCT OVERVIEW

Description

The e-DAS is a motorised locking solution designed for emergency exits in public access buildings. It is suitable for both single-leaf (1V) and double-leaf (2V) doors, including push and pull configurations.



The system ensures:
- Safe evacuation in case of emergency
- Secure locking in standby mode
- Silent and controlled motorised operation

The e-DAS integrates seamlessly with:
- Fire safety systems (FPS / Control Unit)
- Access control systems
- Building management systems

IP42 IK10 Certification CE
WEEE & RoHS -10°C - 40°C

Key Features

- Motorised locking system with automatic control
- Compatible with single and double action doors
- Built-in door misalignment compensation (±15 mm)
- High durability: up to 1000 cycles/day
- Integrated status feedback (bolt position, fault, door status)
- Audible signalling (buzzer)
- LED external state indicator

Applications

- Public buildings
- Hospitals
- Transport hubs
- Commercial facilities
- High-traffic environments
- User type : Personal, employee

Package Content

	Lock	Counterpart
Single door		
Double door		

3] TECHNICAL SPECIFICATIONS

Specification	Feature	Value
Dimensions	1 and 2 points	424 x 89 x 59 mm
Electrical	Power supply	24 to 48Vdc/36W
	Remote power supply	24 to 48Vdc/3W
	Power input	24 to 48 V DC
	Consumption	125 mA @ 24V 62.5 mA @ 48V
		max 28W peak during operation
		< 3W remote control
	Electrical system	Motorised
	Sound signal	Yes
	Output relay	7
	Automatic relock	Yes
	Opening/ closing time	0.5s
	Electrical exit	External push button
Mechanical	Holding force	700daN per bolt
	Mounting	Surface
	Emergency mechanical exit	Round knurled handle
	Mechanical ingress	EU Cylinder compliant
Bolt	Bolt number	2 anti-saw 16mm
	Bolt displacement	20mm
	Bolt resistance	700 daN
	Misalignment compensation counterpart	+/- 15mm
	Bolt thrust	15 daN
Performance	Cycles	2,000,000
	Emergency exit	Fail safe
Option	Customisation	Via web browser
Regulation	NF S61-937	Compliant
	EN13637	Compatible
Funtional	Automatic locking	Yes
	Configurable relock delay	Yes
	Door position monitoring	Yes
	Fault detection and signalling	Yes

4] PRODUCT RANGE KITS

Reference	Description	Content
F1411000012	KIT e-DAS 1V	2 bolts motorised lock with realign counterpart for single door
F1411000006	KIT e-DAS 2V	2 bolts motorised lock with realign counterpart for double doors

5] SAFETY INSTRUCTIONS

Installation must comply with applicable local fire safety regulations and standards (e.g. NF S61-932, NF S61-933 or equivalent).

Safety Instructions

- Installation must be carried out by qualified professionals
- Power must be switched OFF before wiring
- Use only compliant cables and power supplies

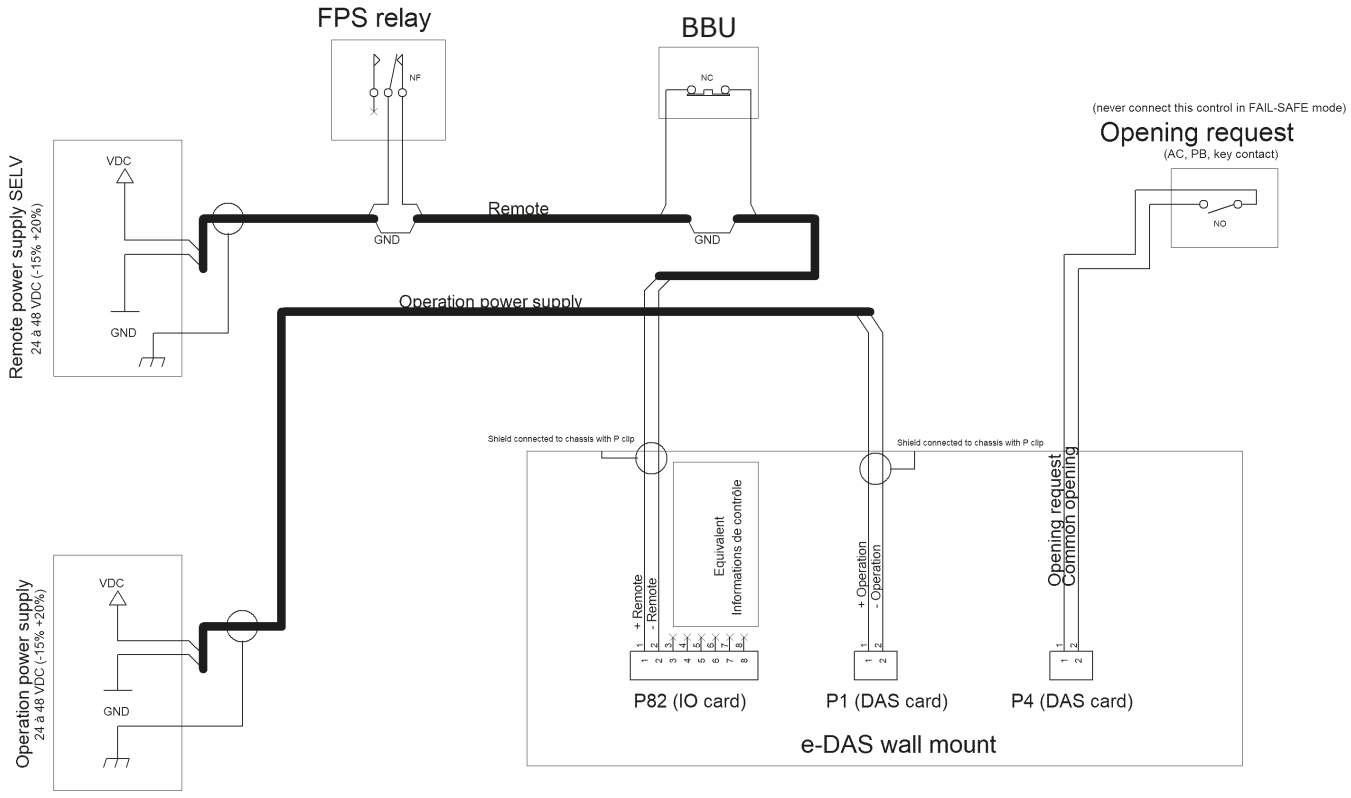
Power Requirements

- Operating voltage: 24 to 48 V DC
- Remote control voltage: 24 to 48 V DC
- Power supply must be filtered and regulated
- Remote power supply must be SELV
- Backup power recommended (battery)

6] SYSTEM ARCHITECTURE

Typical Installation

It is possible to use the same power source with two outputs (remote control and operation)



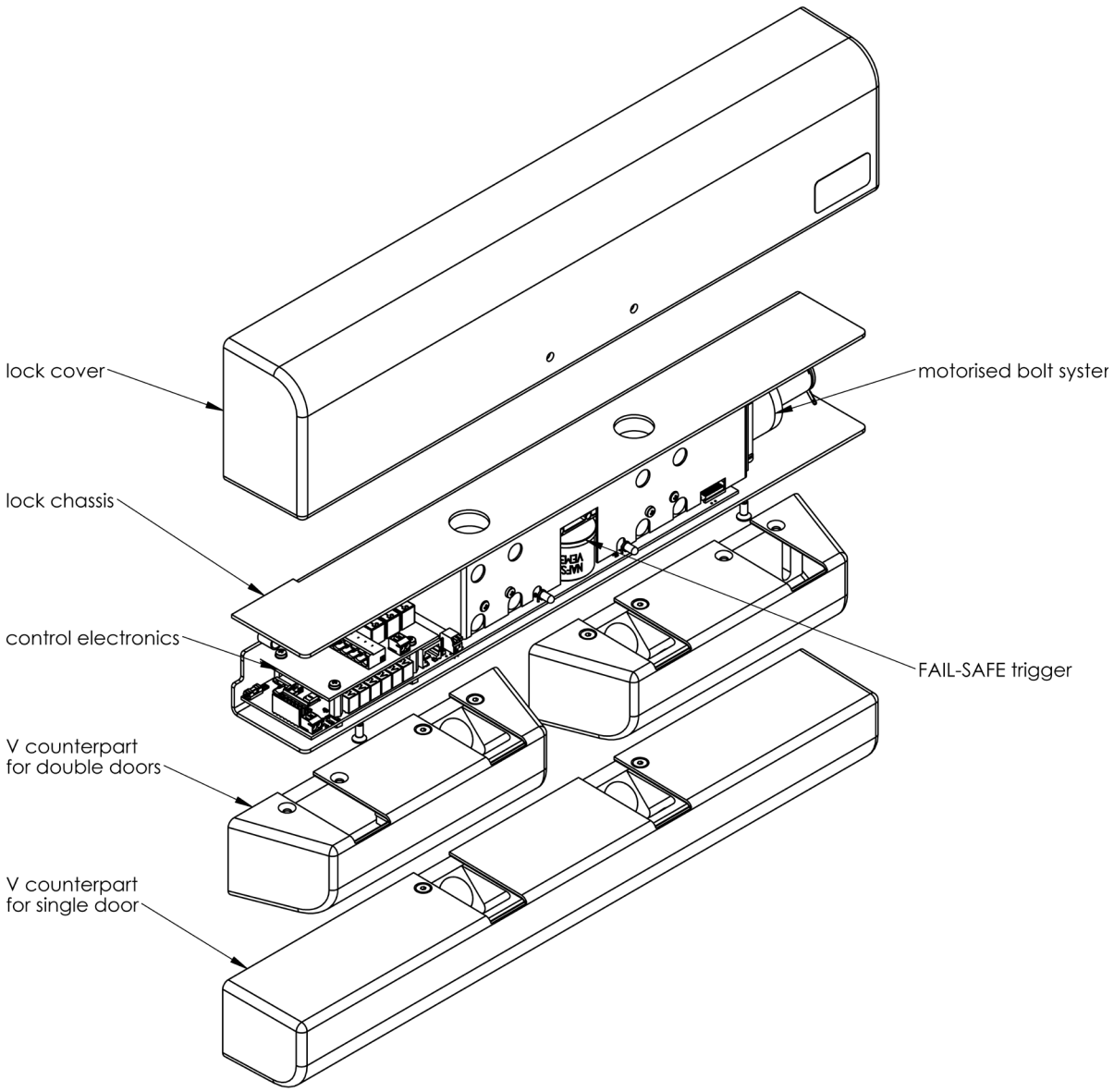
Remote cable C2 type (1 mm²) shielded
Operation cable (1 mm²) shielded

The e-DAS can operate:
- As part of a fire system (priority control)
- With access control (parallel connection)
- With optional overlocking function (unable the fire system)

Operating Principle

- Standby mode ATT: door locked and ready
- Emergency command SEC: unlock triggered by fire system
- Access control command: door temporary unlock
- Automatic relock: when door returns to position

Components



7] MECHANICAL INSTALLATION

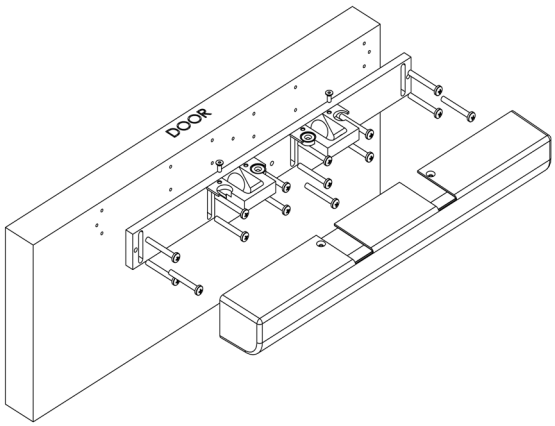
General recommendations

- Install on rigid and flat surfaces
- Ensure proper alignment between lock and counterpart
- Use appropriate screws depending on material
- Allow cable routing inside frame where possible

Installation – Single Leaf (1V)

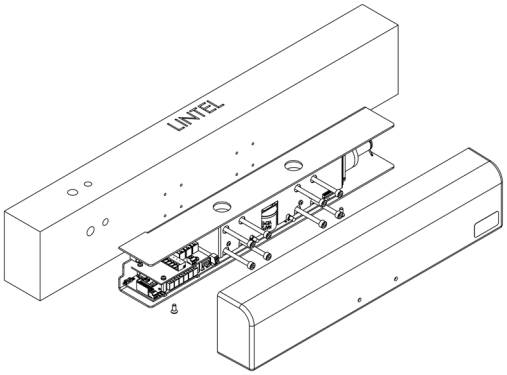
Step 1 – Install the counterpart

- Remove cover
- Position flush with door
- Ensure correct alignment of both bolts
- Adjust using shims if necessary
- Fix using appropriate flat head screws 5mm Ø max



Step 2 – Install lock chassis

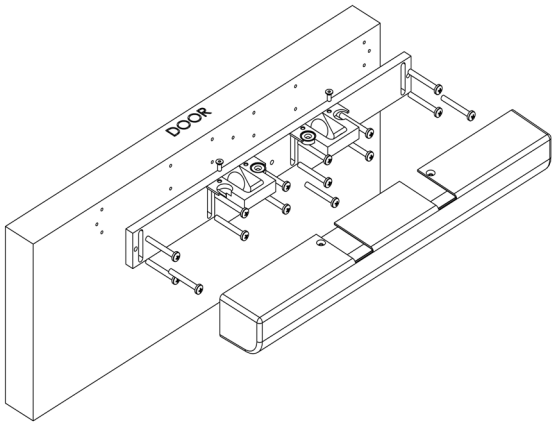
- Remove cover
- Drill fixing and cable holes
- Fix chassis to frame using appropriate flat head screws 5mm Ø max
- Secure cables with clips



Installation – Double Leaf (2V)

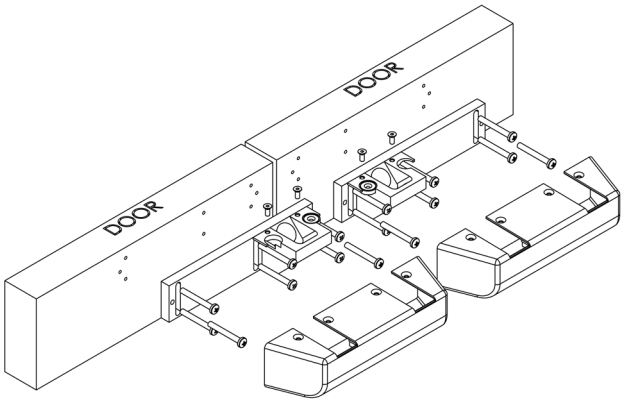
Step 1 – Install the counterparts

- Remove covers
- Position flush with door
- Ensure correct alignment of both bolts
- Adjust using shims if necessary
- Fix using appropriate flat head screws 5mm Ø max



Step 2 – Install lock chassis

- Remove cover
- Drill fixing and cable holes
- Fix chassis to frame using appropriate flat head screws 5mm Ø max
- Secure cables with clips

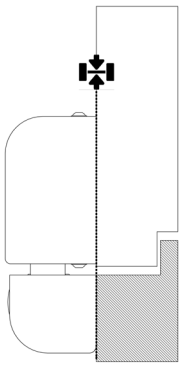


Vertical Installation (if applicable)

- Adapt installation depending on push/pull configuration
- Respect maximum height recommendations
- Ensure bolt alignment with strike

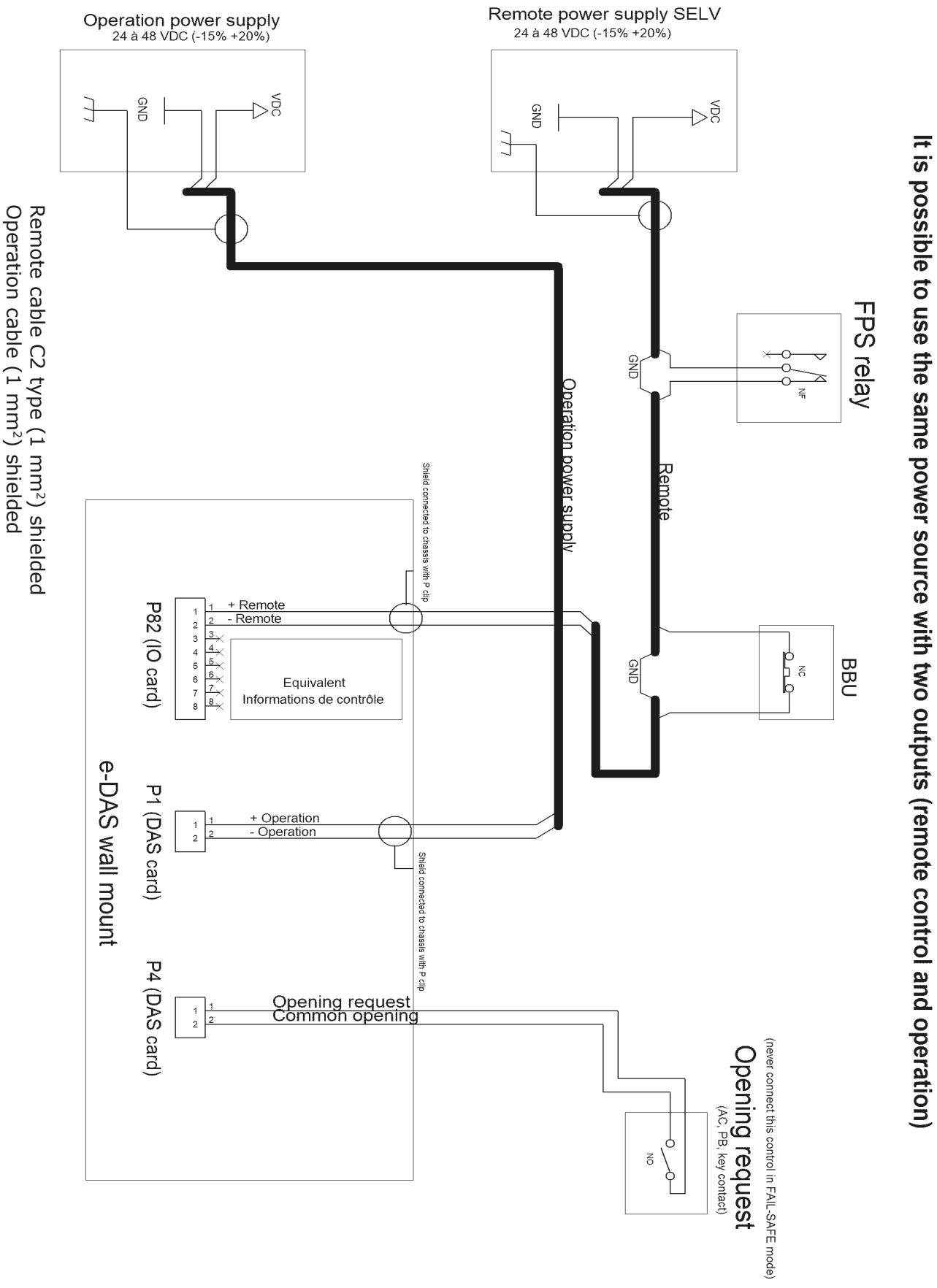
NOTE: drilling of the lock covers and/or chassis is strictly prohibited and will result in invalidating under penalty of cancelling the DAS NF S61-937 compliance report (IP42 protection).

ALIGNMENT IS CRITICAL

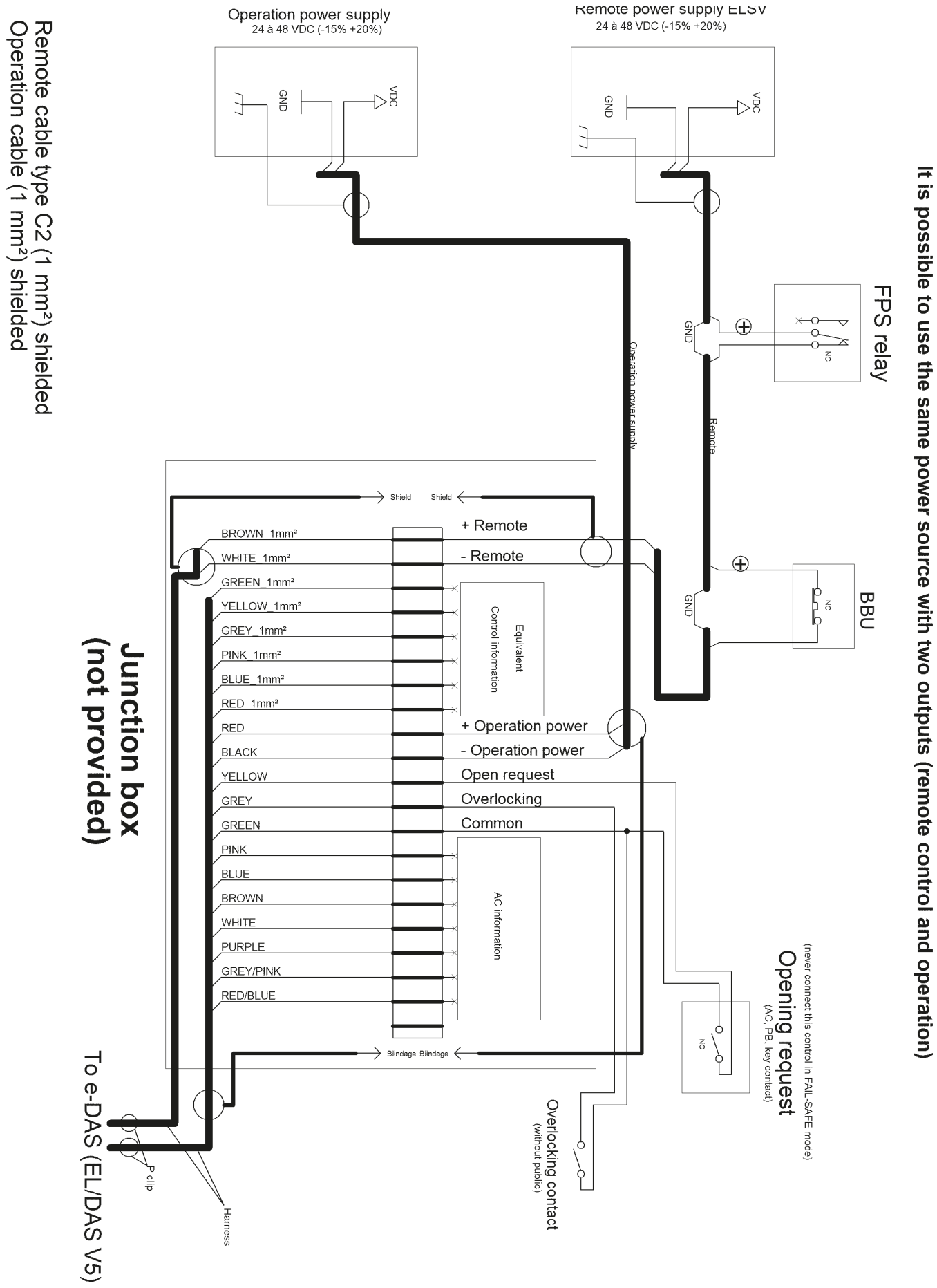


8] ELECTRICAL CONNECTIONS

Minimal wiring



With wire harness (optional)



Cabling Requirements

- Power supply: 1 mm² flexible (minimum)
- Control signals: Shielded cables recommended
- Remote control: compliant cable (C2 type minimal)

Power Connections

Connector	Function
P1	Operating power supply
P82	Remote control + status
P3	Advanced I/O
P4	Opening request

Main Signals

Inputs

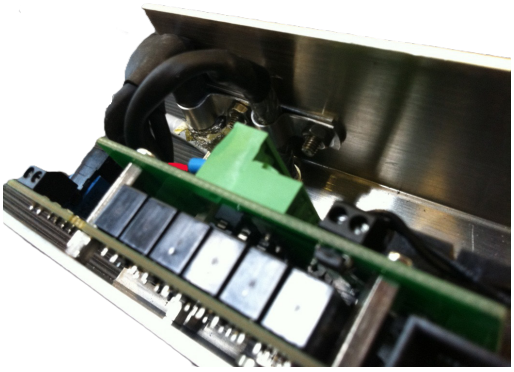
- Remote control (fire system)
- Opening request (push button / access control)
- Overlocking input (optional)

Outputs

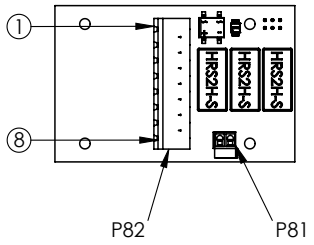
- Standby status ATT
- Security status SEC
- Door position CF
- Bolt position PR / PS / PI
- Fault signal DEF

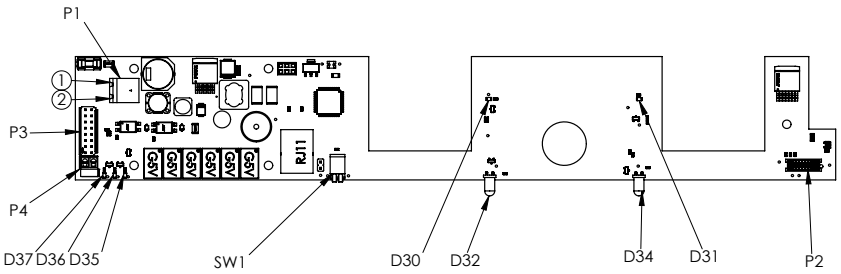
Important Rules

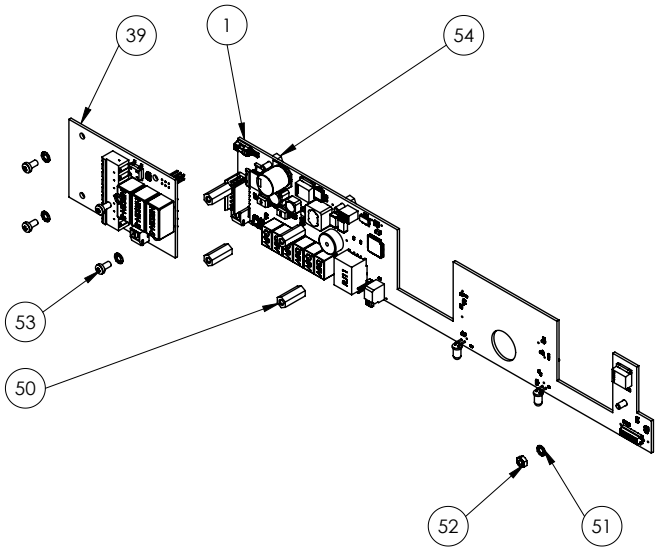
- Ensure correct polarity
- Secure cables mechanically
- Perform wiring with power OFF

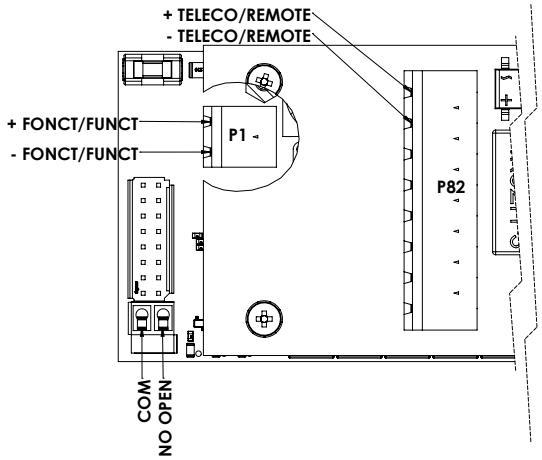


9] CONFIGURATION









Relock Timer (SW1)

Defines how long the door remains unlocked after command:

15 s OFF / OFF
30 s ON / OFF
40 s OFF / ON
80 s ON / ON

Buzzer Settings

- Active by default
- Can be reduced via jumper (side of SW1)
- Signals:
    - o Opening
    - o Closing
    - o Fault

P3 identification

Connector	Terminal	Cable	Harness colour	Designation
P3	1	C2	Green	0V command
P3	2	C2	NC	NC
P3	3	C2	NC	NC
P3	4	C2	NC	NC
P3	5	C2	NC	NC
P3	6	C2	Yellow	Opening request
P3	7	C2	Grey	Overlocking input
P3	8	C2	NC	NC
P3	9	C2	NC	NC
P3	10	C2	Pink	CF
P3	11	C2	Blue	SUR
P3	12	C2	Brown	PR
P3	13	C2	White	PS
P3	14	C2	Purple	PI
P3	15	C2	Grey/Pink	DEF
P3	16	C2	Red/Blue	Common information

P4 identification

Connector	Terminal	Designation
P4	1	Common command
P4	2	Opening request

P82 identification

Connector	Terminal	Cable	Harness colour	Designation
P82	1	C1	Brown	+ Remote
P82	2	C1	White	- Remote
P82	3	C1	Green	SECURITY (NO) equivalent SEC
P82	4	C1	Yellow	SECURITY Common Equivalent SEC
P82	5	C1	Grey	SECURITY Equivalent (NC) SEC
P82	6	C1	Pink	STANDBY (NO) Equivalent ATT
P82	7	C1	Blue	STANDBY Common equivalent ATT
P82	8	C1	Red	STANDBY (NF) Equivalent ATT

P1 identification

Connector	Terminal	Cable	Harness colour	Designation
P1	1	C2	Red	+ Power operation
P1	2	C2	Black	- Power operation

LED identification

D37	PS	Bolts out
D36	PI	Bolts on FAIL-SAFE position
D35	PR	Bolts in
D32	ATT	Lock in standby
D34	SEC	Lock unlocked
D31	CFD	Right rebate sensor
D30	CFG	Left rebate sensor

10] COMMISSIONING

Pre-checks

- Verify wiring
- Check mechanical alignment
- Ensure power supply stability

Start-up Procedure

1. Power ON system
2. Verify LED indicators
3. Test unlocking
4. Test relocking
5. Check door position detection

Functional Tests

- Emergency unlocking
- Access control operation
- Automatic relocking
- Fault detection

11] OPERATION

Unlocking

- Triggered by fire system or access control
- Audible signal confirms action

Locking

- Automatic when door is closed
- Delay prevents false locking
- Audible signal confirms action

Fault Management

Manual override available via cylinder for ingress.
Manual override available via knurled handle to exit.

12] MAINTENANCE

Maintenance level:

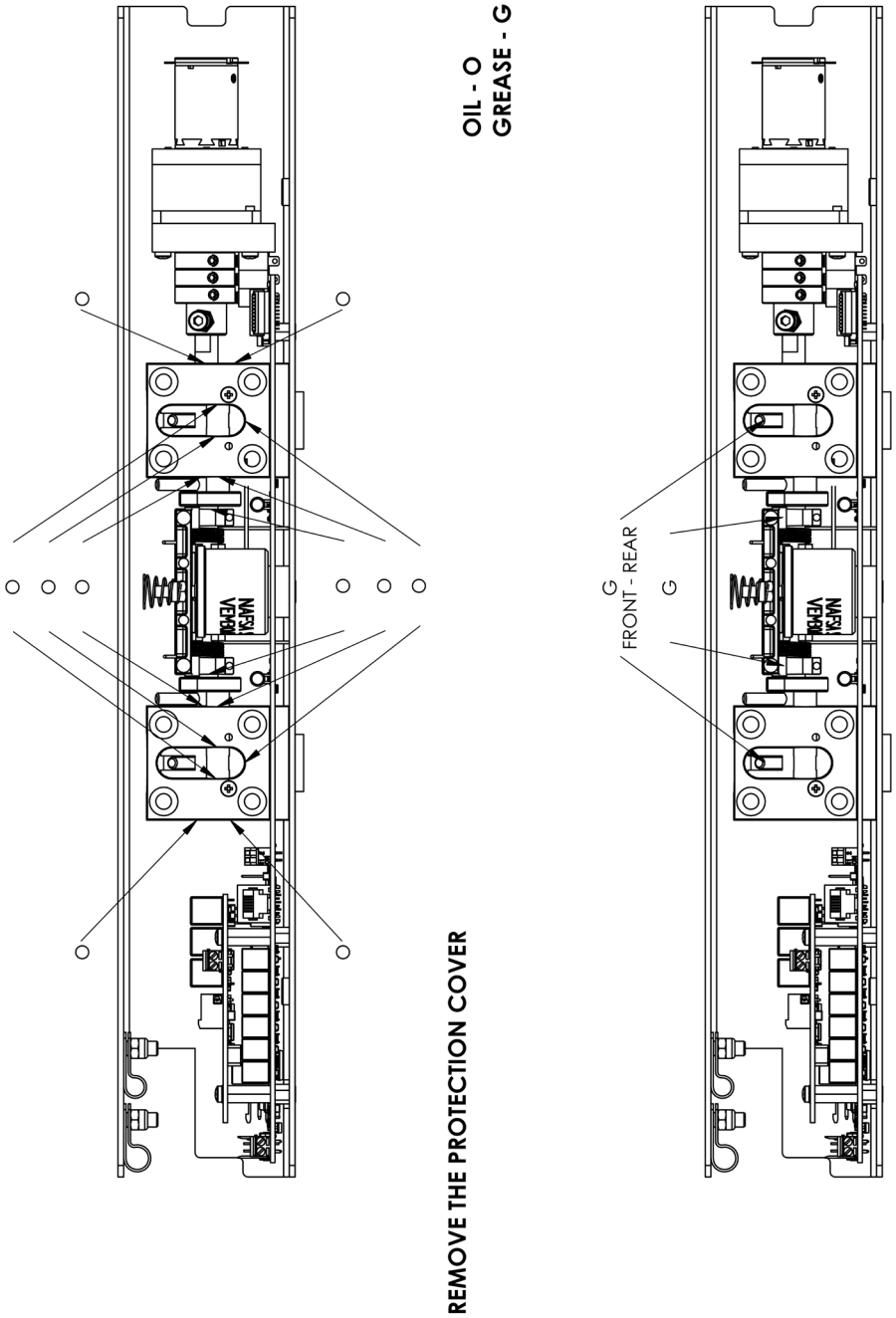
- Level 1: To be done by an installer or professional.
- Level 2,3 or 4: Specific training is needed to change internal parts. Contact your local CDVI Technical Support.

Maintenance Schedule

- Daily: check standby status with cover LED
- Monthly: test unlocking with fire system

Level 1 Maintenance

- Take the lock cover off and the protection cover from the lock
- Visual inspection
- Electrical check
- Mechanical check, verify the bolt levers are securely glued in place



Put the protection cover back on the lock and the cover of the lock (the magnet counterpart must be well placed before fixing the aluminium cover in place)

Key Checks

- Fixings
- Cable integrity
- Sensor alignment
- Bolt operation

Lubrication

- Use light oil for moving parts
- Do NOT grease bolts
- Apply grease only on specified components as show above

12] TROUBLESHOOTING

Issue	Cause	Solution
No unlocking	PB or access control fail	Verify the contact
Fault signal	Door misalignment	Adjust counterpart
No relock	Door position not detected	Check sensor
	Fire remote control activated	Verify the remote power
Noise abnormal	Mechanical issue	Inspect components

13] END OF LIFE

Dispose of the product according to local recycling regulations.

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