SRS RIGGING

MCP-LV

INSTRUCTION MANUAL

THIS DOCUMENT APPLIES TO ALL

MCP SERIES LOW VOLTAGE MOTOR CONTROLLERS

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IMPORTANT NOTE

The user is required to read and understand this manual before installing, operating, or servicing the device. Failure to follow the specified procedures and safety guidelines may result in equipment malfunction, personal injury, or hazardous situations. The manufacturer assumes no responsibility for damage or injury caused by negligence, improper handling, or failure to comply with the instructions provided. Under such circumstances, all associated risks and liabilities fall to the operator.

REPAIR & SERVICE

In the event of equipment malfunction, please contact our Technical Support Department at rma@srs-group.com, or reach out to the authorised distributor from whom the equipment was purchased. To ensure optimal performance and extend the service life of the device, only use replacement parts supplied or approved by the manufacturer.

For inquiries related to the functionality, operation, or applications of this equipment, please contact your local distributor or email us at sales@srs-group.com.

IMPORTANT NOTE

When contacting the manufacturer or local distributor, please provide information found on the sticker on the rear panel. This will ensure swift processing of your request. Thank you!

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1. SAFETY INFORMATION

The following general safety precautions have to be observed during all phases of operation, service, and repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

DO NOT OPERATE IN AN EXPLOSIVE ATMOSPHERE!

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

WATER, MOISTURE, HEAT AND HUMIDITY

Do not operate this equipment near water or in areas with wet floors, also not in high humidity atmosphere where condensation forms on the equipment. It should never be placed near or over a heat register or other source of heated air and it should not be installed or operated without proper ventilation.

MAINTENANCE WORK PRECAUTIONS

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

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2. PRODUCT DESCRIPTION

MCP-LV is a motor controller designed to control up to eight electrically compatible low voltage hoists, either separately or simultaneously. All channels are controlled via switches located on the control panel of the device or a cable remote/pendant.

The device will not function if:

- **!** One phase is missing
- **!** Under- or over-voltage is detected on the circuit
- **!** All safety connectors are not plugged
- **!** E-STOP is engaged on one of the devices down the link

All electrical components carry their own individual cSA/UL, CE and comply with European Directives. The components are housed in robust plastic case, made out of dust- and water-proof material. Complete unit complies with the CE according to the Certification of conformity attached to this manual.

2.1. TECHNICAL SPECIFICATIONS

MAINS CONNECTION

- Mains input: AC 400V/AC 208V +-20%, 50/60Hz
- Mains plug: depends on the model

PROTECTION & SAFETY

- For MCP4: 2x MCB C16A
- For MCP8: 2x RCBO C16A/30mA
- MPA – Manual Phase Align
- Double mechanical blocking contactors
- Emergency stop

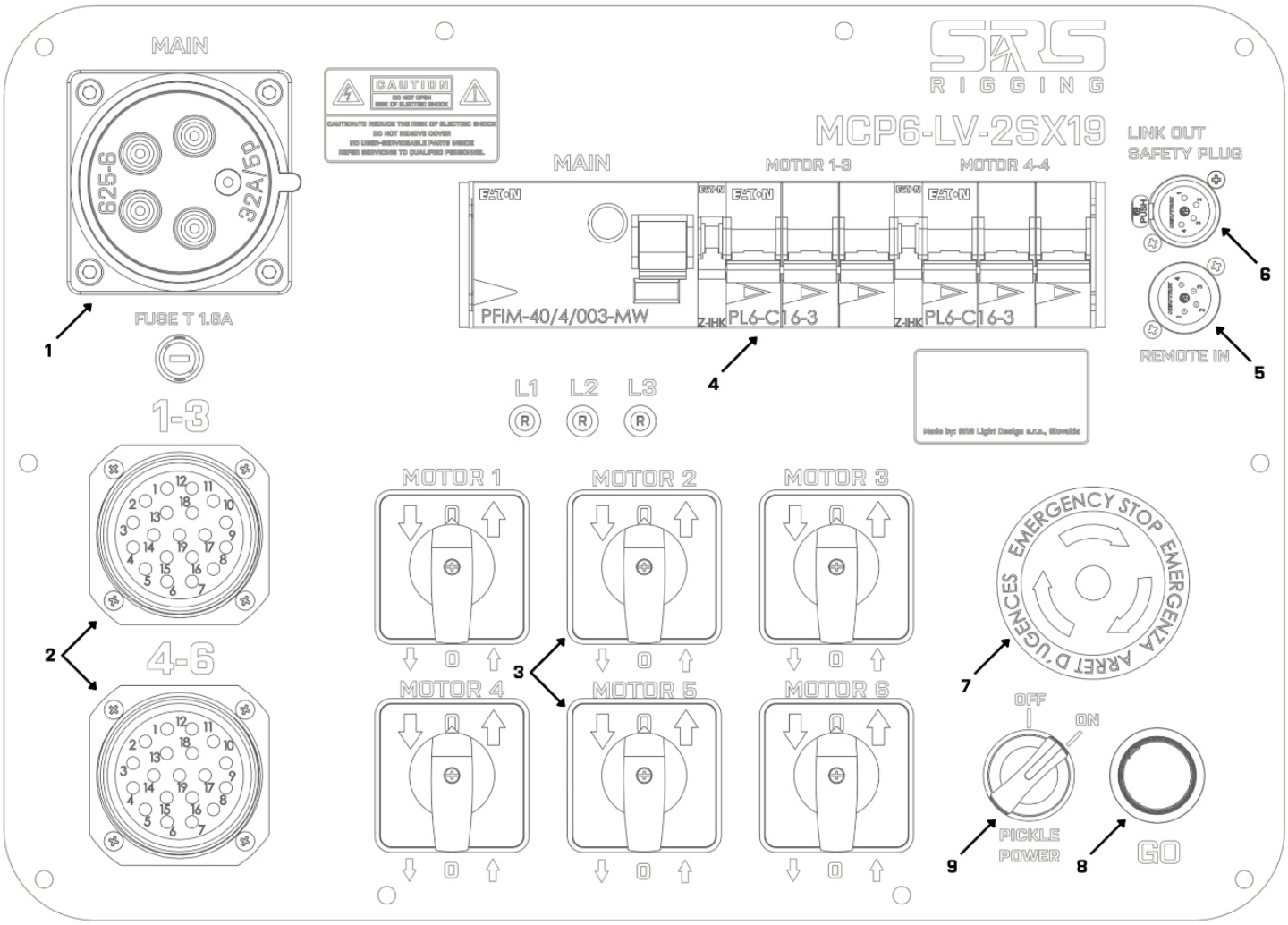
PLASTIC HOUSING

- IP67 resin case
- Lightweight NMK-7 resin

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3. PRODUCT OVERVIEW

3.1. CONTROL PANEL OVERVIEW (exemplified by 970023)



1. MAINS INPUT
2. MAIN OUTPUTS
3. DIRECTION SWITCHES
4. C16A RCBO
5. REMOTE INPUT
6. LINK OUTPUT
7. E-STOP BUTTON
8. GO BUTTON
9. PICKLE MODE SWITCH

IMPORTANT NOTE

When contacting the manufacturer or local distributor, please provide information found on the sticker above the E-STOP button. This will ensure swift processing of your request. Thank you!

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MAINS INPUT (1)

Used to power the device. On 970023, CEE32/5p connector.

MAIN OUTPUTS (2)

Used to connect the hoists. On 970023, 2x Socapex 19-pin. Please check the wiring diagram sticker above the outputs for more details.

DIRECTION SWITCHES (3)

Used to select movement direction for each hoist/channel separately.

C16A RCBO (4)

Used to protect the hoists and user from overload, short circuit, and electric shock.

REMOTE INPUT (5)

Used to connect a cable hand remote via a 5-pin XLR data cable.

LINK OUTPUT (6)

Used to link multiple MCP units via a 5-pin XLR data cable. When not in use, the port must be plugged with a safety plug.

E-STOP BUTTON (7)

When pressed, the button locks into active (engaged) position and must be rotated clockwise and released to disengage.

GO BUTTON (8)

Used to set the selected channels in motion when the unit is active. Movement continues for as long as the operator holds the button.

PICKLE MODE SWITCH (9)

Used to supply power to the hoists without engaging the GO button.

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4. OPERATION & CONTROL

The hoists connected to the motor controller can be controlled either individually or simultaneously using the GO button, located on the control panel, or the cable remote. Several MCP-LV motor controllers can be linked together to create a bigger system.

4.1. THE STARTUP PROCEDURE

1. Connect the power plug to an AC 400V ±20% power supply.
2. On the control panel, check that all the breakers are on, and all safety connectors are plugged. Repeat for all linked controllers.
3. Connect the chain hoists to the output sockets.
4. Check that E-STOP is not engaged.
5. Set the directional switch corresponding to each chain hoist into one of the following positions:

   UP – switch in the upper position;

   STAY – switch in the middle position;

   DOWN – switch in the lower position;
6. Holding the GO button will set the motors in motion.
7. Releasing the GO button will stop all movement of motors.

When the device is not in use, it is highly recommended to press the E-STOP button and keep it engaged until next use.

4.2. OPERATION IN PICKLE MODE

1. On the control panel, check that E-STOP is not engaged, all the breakers are on, and all safety connectors are plugged.
2. Set the direction switches to STAY (middle position)
3. Turn on pickle mode using the switch located on the control panel. Use external direction pickles to control the connected hoists.

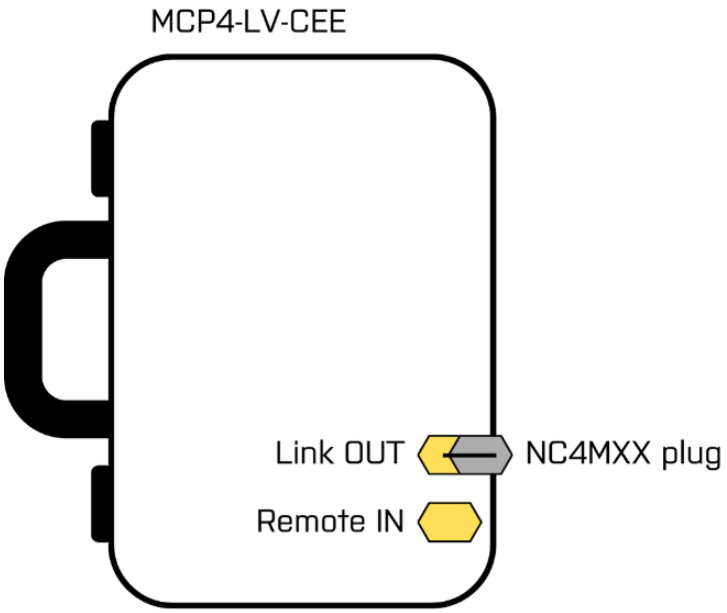
IMPORTANT NOTE

It is not recommended to use pickle mode in a system of linked motor controllers.

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5. SAMPLE OF SYSTEM SCHEMATICS

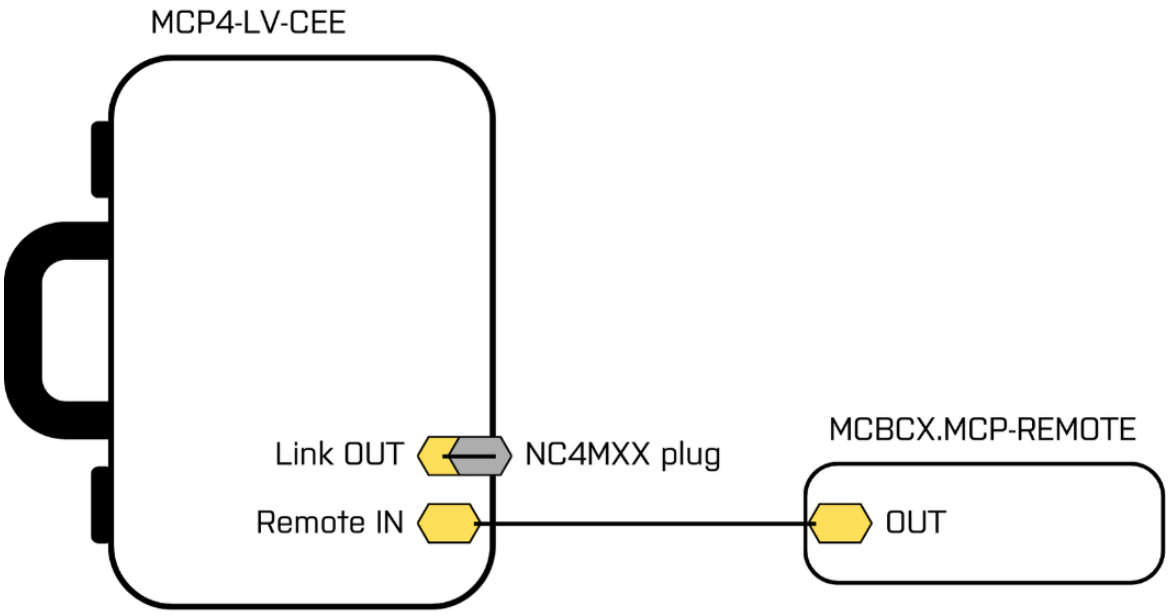
5.1. SINGLE CONTROLLER OPERATION



WHEN **LINK OUT** IS NOT IN USE,
SAFETY PLUG MUST ALWAYS BE IN

In this mode, the motor controller is activated using the GO button located on the control panel. During operation, safety plug must be plugged in.

5.2. CONTROLLER REMOTE OPERATION

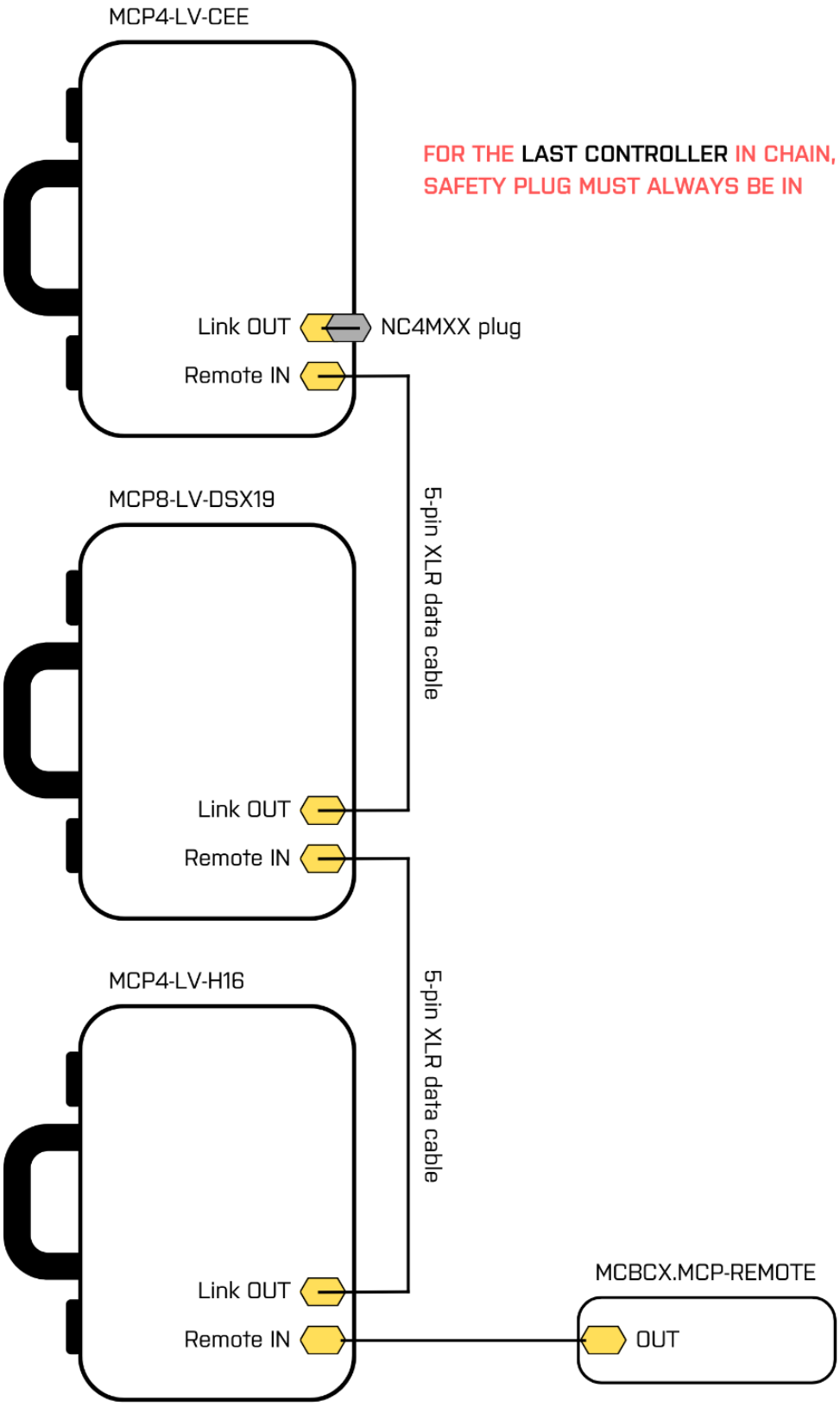


WHEN **LINK OUT** IS NOT IN USE,
SAFETY PLUG MUST ALWAYS BE IN

In this mode, the motor controller is activated using the GO button located either on the control panel or on the MCBCX.MCP-REMOTE. During operation, safety plug must be plugged in.

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5.3. CONTROLLER LINK OPERATION



In this mode, all linked motor controllers are activated using the GO button located either on the master unit or on the MCBCX.MCP-REMOTE. To identify the master, press GO on the first unit in chain; if the GO buttons light up on all the linked units, you have located the master unit.

IMPORTANT NOTE

Group stop and E-STOP are NOT transferred down the link.

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6. WARRANTY

This unit is covered by a two-year manufacturer's warranty. For information regarding extended warranty terms, please contact the manufacturer at sales@srs-group.com.

The warranty applies exclusively to original factory-installed components and ensures their correct operation under normal usage conditions.

The warranty shall be void under the following circumstances:

- ! Any original component has been tampered with or modified without authorisation;
- ! The equipment is operated outside of its intended or specified usage conditions;
- ! The electrical power supply does not meet required specifications;
- ! Mechanical damage is present, including damage caused by overload or improper use;

ADDRESS

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831 07 Bratislava
Slovakia

CONTACT DETAILS

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Email: sales@srs-group.com

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DECLARATION OF CONFORMITY

According to the specification of Machinery Directive 2006/42/EC, Annex II A:

Name of manufacturer:	SRS Group s.r.o.
Registered seat:	Pri majeri 4 831 07 Bratislava Slovakia

Declares that the product

Type: MCP Series Low Voltage Motor Controller

Name: 970XXX / MCPxx-LV-XXX

Year of construction: 2025

Corresponds to the following harmonised standards:

Safety:	EN 60065:2014 EN 60204-1:2019 EN 13850:2015 EN 12100:2010
EMC:	EN 55103-2:2010

And in compliance with the following requirements:

Machine directive:	2006/42/EC
Low Voltage directive:	2014/35/EU
Electromagnetic compatibility directive:	2014/30/EU

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Bratislava, 25. 7. 2025

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