



Motor control units and accessories

RZ-24 locking system and motor terminal box to use with 230 V Failsafe electrical drive

locking system including integrated manual release button

- 3 in 1 system: power supply + trigger device + manual trigger button
- button close door can be used as test button
- reset button
- integrated horn
- 24 V / max. 0,9A
- Foiled front operating surface, operating status display
- Alarmdevice, annunciator, potential-free
- large casing, lockable transparent lid, IP65 degree of protection
- measurements WxHxD approx. 400 x 300 x 150 mm
- suitable to accommodate add. components



General:

the locking device is suitable for holding open:

- single and double side-hung doors or sliding doors and gates
- folding gates and sectional gates
- flexible smoke and fire protection barriers
- Fans, conveyor systems and machines that must be switched off in the event of smoke development

Power supply with trigger device

The Protronic control unit RZ-24 is a component of the tested and approved locking-system RZ-24-FA.

Integrated in the casing of the locking device are a power supply unit, a trigger device and - depending on the type - the manual trigger.

Visual and audible alarm indication

According to EN 14600:2005, pt. 4.9.2.1 an visual and audible signalisation of the closing is mandatory.

The same applies according to accident prevention regulations if the maximum permissible closing forces cannot be observed. In the event of a fire the power grid is mostly down, therefore a visual display of the closing of the smoke- and fire protection curtains with the stand-by set is necessary.

Manual trigger and push-button

In addition to the integrated manual push-buttons of the RZ-24, various manual push-buttons can be used to trigger the the locking system or to close the smoke- and fire protection curtains.

Powerpack

To bridge short-term power-grid failures, i.e. until the stand-by set is starting, the Power-Pack emergency power supply is the perfect solution. In case of the 230 VAC voltage failure the Power-Pack guarantees a hold-open-time up to 12 minutes.

Fire detection components

Fire detectors are monitored by the RZ-24 locking-device for broken wires and short-circuits and trigger the locking device in case of fire. Smoke detectors and smoke switches from a wide range of well-known manufacturers can be used for fire detection too.

Locking device

Magnetic clamps hold doors or closures in the „open“ position. if necessary the smoke detector sends a signal to interrupt the holding current, therefore the doors can be closed with the aid of an automatic door closer. This way, the spread of fire and smoke can be counteracted. Door closers, magnetic brakes and running regulators from a wide range of manufacturers can also be used as locking devices in addition to magnetic clamps.

RZ-24-FA features

The green LED indicates a fault-free function of the energy supply unit; in the event of a fire alarm, the triggering is indicated by a red LED on the operating and display foil, which complies with the latest VdS specifications.

In addition, the integrated horn provides an audible signal that can be acknowledged on the operating foil.

In addition to a wide-range power input, the power supply unit is also characterised by low power consumption.

The high degree of protection IP65 as well as the approval for hazardous areas also enable use in extreme ambient conditions.

If short-term power fluctuations or even power-grid failures have to be expected at the installation site, a power bridging of up to 15 minutes max. can be ensured by using a Powerpack.

The very comprehensive equipment is rounded off by potential-free signal transmission.

Motor Control Unit MS-15/17F to use with 24 V DC Failsafe electrical drive

General

The MCU MS-15/17F is designed for a central or group control of fire curtains with 24 V DC electrical drives.

By triggering the brake integrated in the drive, the curtain will descent via gravity.

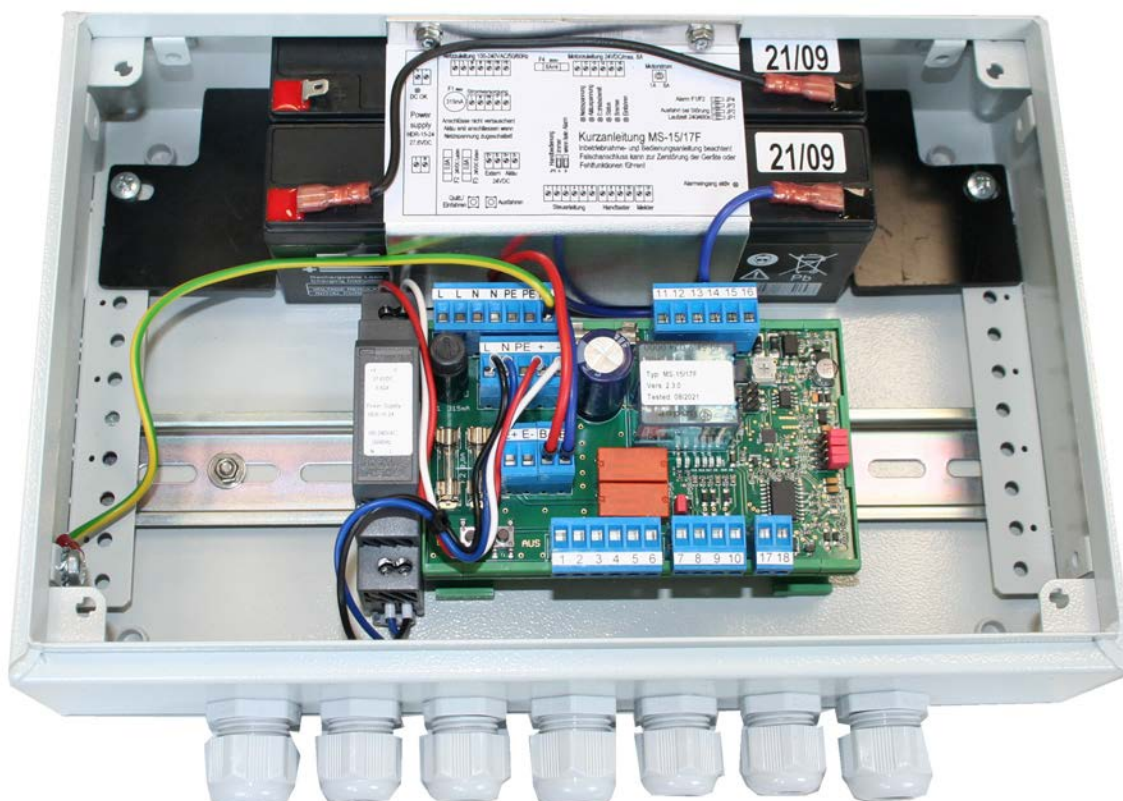
The switch-off in the upper end position is effected via an adjustable (1-8A) current monitoring.

Each electrical drive needs it's own MCU MS-15/17F, under no circumstances shall one MCU MS-15/17f be connected to more than one electrical drive.

Due to the battery-buffered 24 V DC power supply, the unit can operate independently of a control centre and remains ready for use even in case of a power failure.

Technical specifications Motor Control Unit MS - 15/17F

Power supply voltage	230V / 50Hz
Control voltage	24V DC, Schaltpotenzial 0V
Buffer battery	2x 12V / 2,2Ah
Motor output Retract	24V DC / 1 - 8A
Motor output Brake	24V DC / 0,3A
Motor fuse protection	Standard 8Amt, 5 x 20
Signal contact	max. 60V / 2A
Duration	240 s / 480 s
Switching brake Retract/Descent	0,1 s
Case / Measurements	Sheet steel / 300 x 200 x 80
Protection class	IP54
Ambient temperature	0°C - +70°C (min / max)
Environmental rating III	see regular check - battery lifespan
Control wire	5 x 2 x 0,8 mm
Alarm contact	max. 10 units / wire max. 200 m total length
Motor wire (1,5 qmm)	Length max. 14 m
Motor wire (2,5 qmm)	Length max. 23 m



Motor Control Unit MS-15/23 to use with 230 V Failsafe electrical drive

General

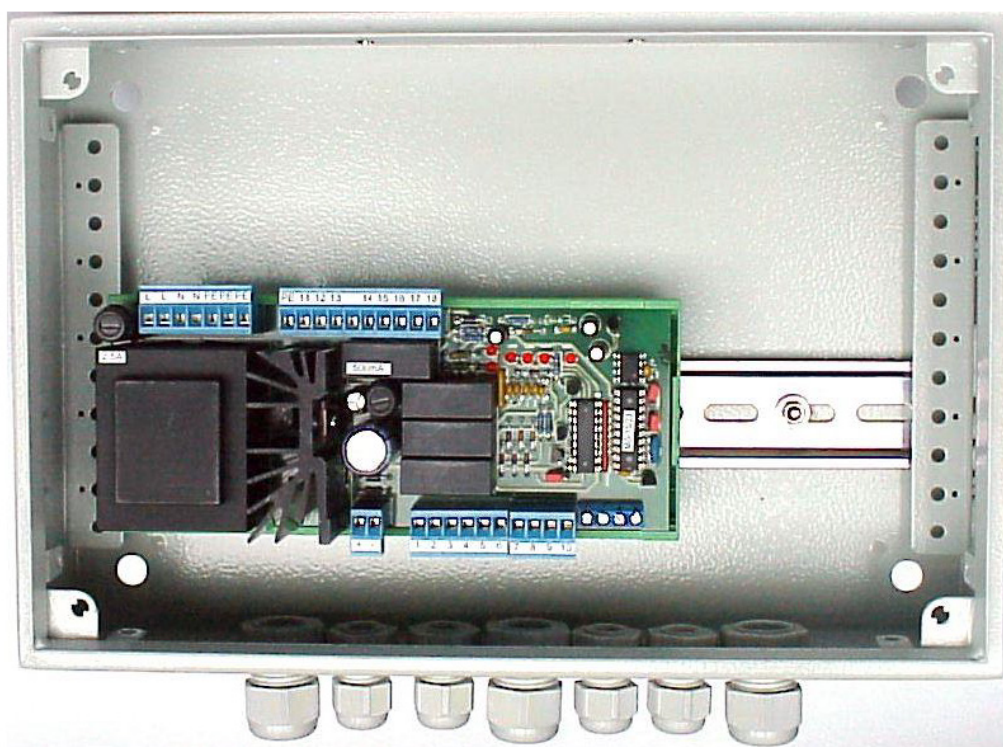
The MCU MS-15/23 is designed for a central or group control of fire curtains with 230 V AC electrical drives. Retraction only. By triggering the brake integrated in the drive, the curtain will descent via gravity. Switch-off in the upper end position is done via limit switches integrated in the drive. Each electrical drive needs it's own MCU MS-15/23, under no circumstances shall one MCU MS-15/23 be connected to more than one electrical drive.

Versions

MS-15/23	MCU without battery buffering, system shuts down immediately in case of a power failure.
MS-15/23 AKKU	MCU with battery buffer for 8,5 minutes, power grid failure bridging. System descends in case of a power failure after 8,5 minutes.

Technical specifications Motor Control Unit MS-15/23

Power supply voltage	230V / 50Hz
Control voltage	24V DC, switching potential 0V
Motor output Retract	230VAC / 2A
Motor output Brake	24V DC / 0,3A
Motor fuse protection	Standard 2Amt, 5 x 20
Signal contact	max. 60V / 2A
Duration	240 s / 480 s
Switching brake Retract/Descent	0,1 s
Case / Measurements	Sheet steel / 200 x 300 x 80
Protection class	IP54
Ambient temperature	0°C - +70°C (min / max)
Environmental rating III	see regular check - battery lifespan
Control wire	5 x 2 x 0,8 mm
Alarm contact	max. 10 units / wire max. 200 m total length
Buffer battery	24V / 250 mAh
Power grid failure bridging time	8,5 minutes



Motor Control Unit MS-15/24F to use with 24V DC electrical drive

General

The MCU MS-15/24F is designed for a central or group control of fire curtains with 24 V DC electrical drives. Each electrical drive needs its own MCU MS-15/24F, under no circumstances shall one MCU MS-15/24F be connected to more than one electrical drive.

Due to the battery-buffered 24 V DC power supply, the unit can operate independently of a control centre and remains ready for use even in case of a power failure.

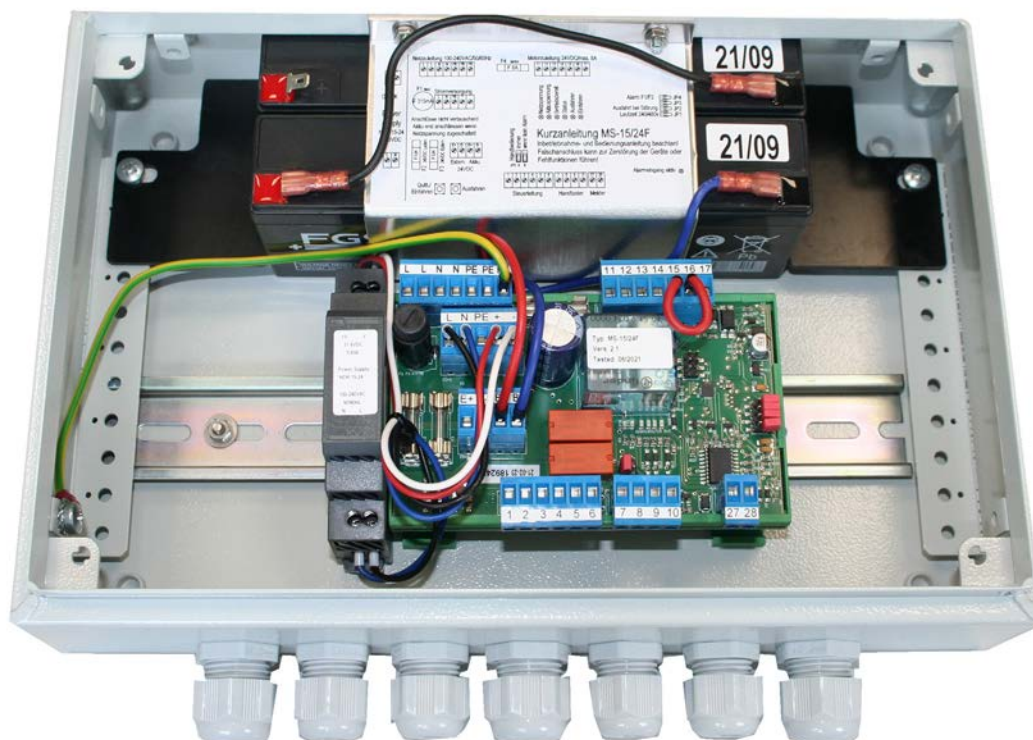
Central control via dry contact.

Parallel control up to 10 MCU.

An interruption of the control wire triggers the immediate roll down of all affected systems.

Technical specifications Motor Control Unit MS-15/24F

Power supply voltage	230V / 50Hz
Control voltage	24V DC, switching potential 0V
Buffer battery	2x 12V / 2,2Ah
Motor output Retract	24V DC / max. 8A
Motor output Brake	24V DC / max. 8A
Motor fuse protection	Standard 8Amt, 5 x 20
Signal contact	max. 60V / 2A
Duration	240 s / 480 s
Switching brake Retract/Descent	0,5 s
Case / Measurements	Sheet steel / 200x300x80
Protection class	IP54
Ambient temperature	0°C - +70°C (min / max)
Environmental rating III	see regular check - battery lifespan
Control wire	5 x 2 x 0,8 mm
Alarm contact	max. 10 units / wire max. 200 m total length
Motor wire (1,5 qmm)	Length max. 14 m
Motor wire (2,5 qmm)	Length max. 23 m



Motor Control Unit MS-15/18 SV

to use with 24 V DC Failsafe electrical drive – includes integrated power supply

General

The MCU MS-15/18-SV with integrated power supply 24 V DC / 7A is designed for a central or group control of fire curtains with 24 V DC electrical drives.

By triggering the brake integrated in the drive, the curtain will descent via gravity.

Switch-off in the upper end position via adjustable (1-8A) power monitoring.

Each electrical drive needs it's own MCU MS-15/18-SV, under no circumstances shall one MCU MS-15/18-SV be connected to more than one electrical drive.

The integrated power supply unit is designed to supply one brake and one electrical drive.

Central control via potential free alarm contact.

Parallel control up to 10 MCU.

Engaging the alarm contact or interrupting of the control wire triggers the immediate roll down of all affected systems.

Technical specifications Motor Control Unit MS-15/18 SV

Power supply voltage	230VAC/50Hz, 200W
Motor output Retract	24V DC / 1-8A
Motor output Brake	24V DC / 0,3A
Ambient temperature	0°C - +70°C (min / max)
Environmental rating III	see regular check – battery lifespan
Control wire alarm contact	2 x 2 x 0,8mm, max. 200 m, 10 units per wire
Power supply + motor wire	1,5 qmm length max. 14 m / 2,5 qmm length max. 23 m
Brake wiring	0,8 mm length max. 50 m
Case / Measurements	Plastic / 291 x 241 x 130



Motor Control Unit MS-15/18 + RZ-24 to use with 24 V DC Failsafe electrical drive

General

The locking device is designed to stop the smoke- and fireprotection curtains from closing without a cause. The central unit is the core of the locking system with the designation RZ-24-FA, which is generally composed of four essential components:

- 1) Power supply (RZ-24)
- 2) Manual trigger (RZ-24)
- 3) Locking system (e.g.: magnetic clamps)
- 4) Fire- / smokedetectors

The integrated manual trigger is the difference to many other power supplies.

Reasons for triggering the system:

- Short circuit or interruption fire alarm loop (X1:4,5)
- Power grid fault (power grid failure)
- Push button usage (X1:8,9)
- Triggered fire detector (power increase X1:4,5)
- using test feature

Technical specifications Motor Control Unit RZ-24

Input voltage	85V AC 265V AC 50/60Hz
power consumption	ca. 30W
Output voltage	24V \pm 5%
Output power	max. 0,9A total
Ambient temperature	-
Case / Measurements	ET217 IP65 (screwed cable gland IP65) - HxWxD 120 x 122 x 57 mm
Cable entry point	4x thread M16 (delivery 4x self-sealing grommet IP54)
Signal loop	
Alarm	I > 12mA
Disconnection	I < 3,0mA
Short-circuit current	max. 50mA
closed current (load resistor = 4k7)	I = 4,5mA
Line tension	$U_{lin} = 20,5...21,4$



Smoke- and Fireprotection

Examples of available electrical accessories

Push button
case color yellow, grey or orange available



Horn / Flashlight external



Smokeswitch Hekatron



Smokeswitch Apollo

