



MCS61 - HEAVY DUTY

- Barrier resistant to freezing weather, strong winds and other extreme weather conditions
- With or without tension cables
- Without slip clutch
- Mechanically loadable weight: 10kg at end of barrier arm in closed position
- Reinforced barrier arm holder
- Opening speed: 10 sec.

PARTS

Barrier box

- Dimension: 450 W x 440 D x 1100 H
- Parts: folded and welded steel plate (3mm) with internal reinforcement (up to 12mm), an access door, a removable cover and a base plate (6mm)
- Removable cover runs diagonally upwards to the center
- Pivot points are mounted with bearings and tension ring mounts

Barrier arm

- With tension cables: round aluminum (\varnothing 120mm) tube with a cover cap at both ends
- Without tension cables: round aluminum (variable \varnothing) tube with a cover cap at both ends
- Red reflective strips (330 x 90 mm) are applied to both sides
- Balanced by a wear-resistant compression spring (> 3.000.000 movements)
- Secured by 9 stainless steel bolts which makes the barrier arm easy to replace for extra stability
- 3 types:
 - Type C = centrally mounted barrier arm

FINISHING

- Surface treatment: blasted and metallized
- Finished off with a thermo-hardened polyester coating

OPENING

- Type N (normal) ~10 sec (min. 8,5 sec - max. 12 sec)

SAFETY

Emergency release accessible via access door in front of column (locked). When the door is opened, the safety interrupter prevents that the barrier moves automatically.

Emergency crank

When the emergency crank is used, the current is automatically interrupted by a limit switch that is in contact with the motor gearbox. To use the emergency crank, swivel the cover on the right side of the barrier box. The emergency crank comes standard with the MCS61 Heavy duty.

MECHANISM

Drive

- Electrical three-phase asynchronous motor
- Speedgear unit with slip-action clutch
- Crankshaft-connecting rod-mechanism
- Built-in detectable compression springs
- Motor drives the speedgear unit uses a duplex chain
- Double bearing intermediate shaft (\varnothing 45mm) is driven by a speed gear unit using chain transmission. (This shaft transmits the movement using a crankshaft-connecting rod mechanism to the double bearing output shaft (\varnothing 60mm)).
- Frequency control ensures a smooth motion

Durability

Slip action clutch in the gear unit ensures a safe ratio between the torque exerted and the torque required. By combining the favourable power factor (1,2) and this clutch, the gear unit is maintenance-free.

Control system

The built-in microcontroller is suitable for various applications (such as 3-push button, change pulse, start with automatic reclosing, loop start, ...) and is provided with a magnetic motor protection switch. This control prevents prolonged slipping and ensures a long service life of the motor. The microcontroller can be connected to other building management or home automation systems with associated software.

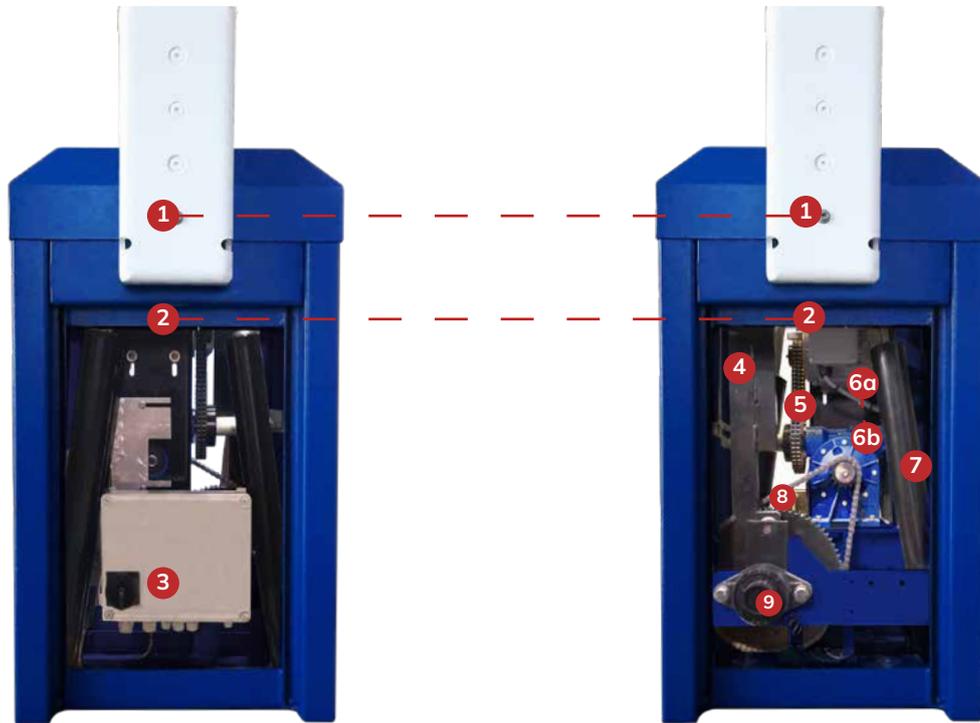
Operating temperature

The MCS61 Heavy duty has an operating temperature of -5°C to 50°C. **Optional:** The thermometer of the heating mat is set to maintain a temperature of >0°C. As a result the temperature of the engine and oil always above freezing. The operating temperature is -30°C to 50°C.

Operation without slip clutch

The MCS-Heavy duty range was designed without a slipping clutch to maintain a constant opening and closing speed under high bending stress in open or closed position (e.g. during heavy snowfall, buildup of frost on the barrier arm, strong winds, gusts or sudden change of wind direction). The MCS-Heavy duty range can be equipped with a slip clutch if desired.

TECHNICAL INFORMATION



Left-side view

Right-side view

1	Upper shaft
2	Door switch
3	Switch cabinet with terminal strip
4	Connecting rod
5	Chain transmission between motor and gearbox with duplex chain
6a	Motor
Power supply	230 VAC
Frequency	50 Hz
Power usage	550 Watt
Cosinus Phi	0.94
6b	Reduction box without internal slip clutch
7	Balance spring Max. 5
8	Duplex chain
9	Bottom shaft

Position of the barrier arm



Central

TECHNICAL INFORMATION

Dimensions barrier box	550 x 600 x 1100mm (WxDxH)
Parts barrier box	Folded and welded steel plate (3mm) with internal reinforcement (15mm), access door, removable lid, base plate (6mm)
Opening speed	*adjustable opening speed
Type N (standard)	~10 sec (min. 8,5 sec - max. 12 sec)
Control	Frequency control
Operating temperature	-5°C to 50°C
Reach barrier arm	
Without tension cables	2000mm to 12000mm
With tension cables	2000mm to 15000mm
Options	
Potentialfree contact of the limit switches in the terminal strips	
Maritime coating	
Stainless steel	
Support pole	

ACCESSORIES

Barrier arm



LED-lighting



Safety strip



Folding support pole

General



Support pole



Support pole with pin bolt



Pivot plate



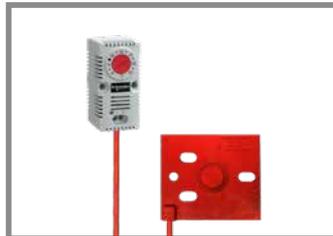
Laser sensor - horizontal



Laser sensor - vertical



Photo cell



Heating mat



Loop detector - Bircher/FEIG



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