



MCS61

- Reach: 2m to 15m
- Built-in wear-resistant compression spring:
> 2.000.000 movements
- Adjustable opening speed
- Up to 5 year warranty
- Custom-made and delivered ready for installation

PARTS

Barrier box

- Dimension: 550 W x 600 D x 1100 H
- Weight: 385kg (excl. barrier arm)
- Parts: folded and welded steel plate (3mm) with internal reinforcement (up to 15mm), 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

- Oval barrier arm (175 x 100mm): 2m to 9m60
- Round barrier arm: 9m70 to 15m
- 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 four stainless steel bolts which makes it easy to replace
- 3 types:
 - Type R = right-hand mounted barrier arm
 - Type L = left-hand mounted barrier arm
 - Type C = centrally mounted barrier arm
- Secured by 3 (R, L, C) stainless steel bolts which makes the barrier arm easy to replace

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 through the access door at the front of the barrier box. When the door is opened, a circuit breaker prevents the barrier from opening 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.

MECHANISM

Drive

- Electrical three-phase asynchronous motor
- Speedgear unit with slip-action clutch
- Crankshaft-connecting rod-mechanism
- Built-in dectable compression springs
- Motor drives the speedgear unit using a simplex chain/v-belt combination
- Double bearing intermediate shaft (Ø 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 (Ø 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.

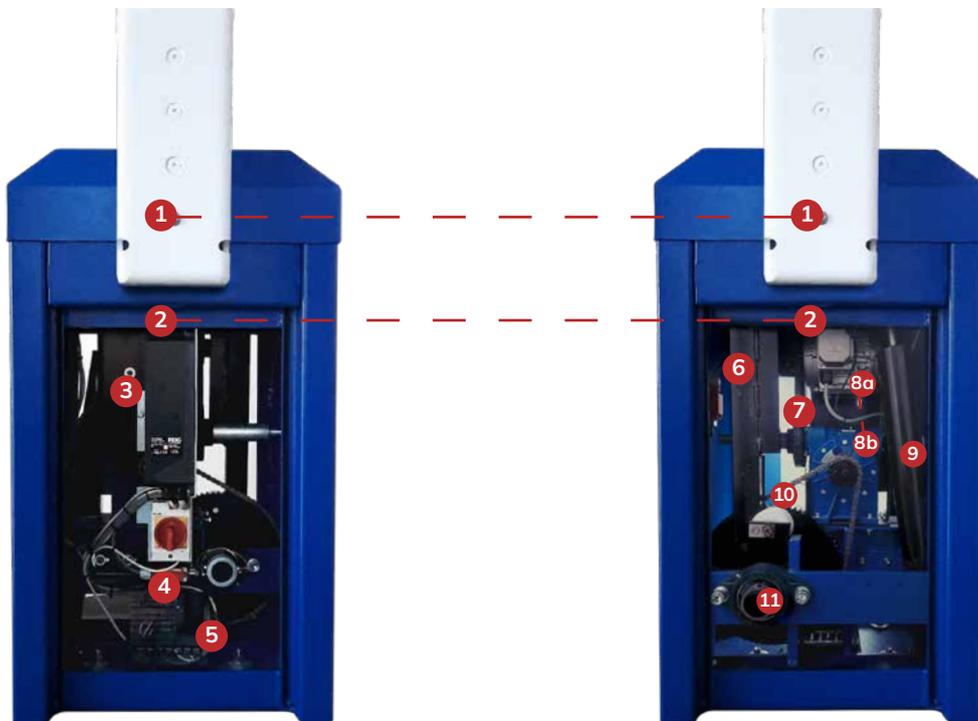
Control system

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 has an operating temperature of -5°C to 50°C. With the addition of the optional heating mat, the range of the operating temperature increases to -30°C to 50°C.

TECHNICAL INFORMATION



Left-side view

Right-side view

1 Upper shaft	
2 Door switch	
3 Control	FEIG-TST-A-FUZ2-B
Power supply	3F 230 VAC/400VAC
Frequency	50 - 60 Hz / 1,5 kVA
Power usage	30 Watt
4 Limit switches	
5 Terminal strip	
6 Connecting rod	
7 V-belt connector between motor and reductor	
8a Motorreductor with (or without) internal slip clutch	
Power supply	230 VAC
Frequency	50 Hz
Power usage	370 Watt
Cosinus Phi	0.94
8b Reducer with internal slip clutch	
9 Balance spring	Max. 5
10 Simplex ketting	
11 Bottom shaft	

Position of the barrier arm

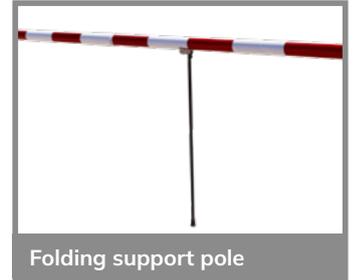


TECHNICAL INFORMATION

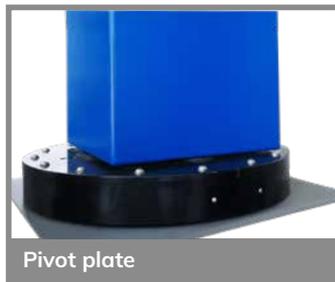
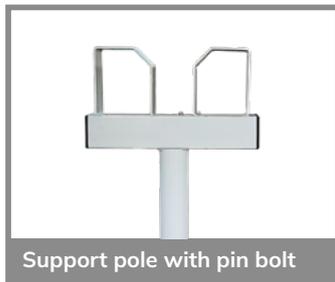
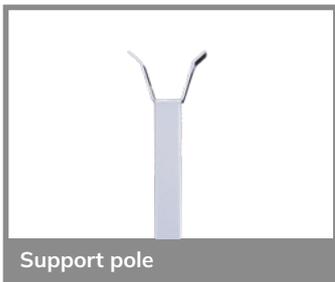
Dimensions barrier box	550 x 600 x 1100mm (WxDxH)
Parts barrier box	Folded and welded steel plate (3mm) with internal reinforcement (15mm), access door, removable lid, base plate (6mm)
Opening speed	*adjustable opening speed
Type N (standard)	~10 sec (min. 8,5 sec - max. 12 sec.)
Control	Frequency control
Operating temperature	-5°C to 50°C
Reach barrier arm	
Oval barrier arm	2000mm to 9600mm
With bottom skirt (oval barrier arm)	2000mm to 8300mm
Round barrier arm	9700mm to 15000mm
Options	
Potential-free contact of the limit switches in the terminal strips	
Maritime coating	
Stainless steel	
Support pole	
Bottom skirt	To 8300mm

ACCESSORIES

Barrier arm



General





**/ YOUR SAFE PARTNER
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