



MOS23

- Range: 2m to 6m
- Built-in wear-resistant compression spring:
 - > 3,000,000 movements
- 3 possible opening speeds
- Master / slave possible
- Up to 5 years warranty
- Standard product, available from stock

PARTS

Barrier box

- Dimensions: 350 W x 320 D x 1040 H
- Parts: A folded and welded 2.5mm Magnelis® steel plate with internal mounting points for attaching the patented barrier mechanism. Base plate with a thickness of 6mm. Access cover and door combined in aluminum with a thickness of 3mm.
- Patented mechanism on a reinforced base plate with a thickness of 15mm on which all components are mounted. All components are either KTL treated or electrolytically galvanized.
- Pivots are mounted with bearings.
- Standard colour: RAL5010S.

Barrier arm

- Round aluminum tube (Ø 80mm) with a cover plug at both ends
- Red reflective strips (330 x 90mm) on both sides
- Balanced by means of wear-resistant compression spring (>3,000,000 movements)
- 2 types:
 - Type L/R = arm attached to the side, easily changed when installing the barrier
 - Type C = central barrier arm
- Secured by 4 (R, L) or 3 (C) stainless steel bolts which makes the barrier arm easy to replace
- Hidden cable entry at the side arm in order to protect the cable for optional LED lighting against vandalism
- Fixed lengths

FINISHING

- Cabinet: Magnelis® steel sheet chemically pretreated for bonding the final layer in thermally hardened polyester coating
- Door/cover: Aluminum steel sheet chemically pretreated for bonding the final layer in thermally hardened polyester coating

OPENING

- Type F (fast) 1.5 sec. (max. arm length = 3000mm)
- Type N (normal) 2.6 sec. (max. arm length = 4000mm)
- Type S (slow) 3,3 sec. (max. arm length = 6000mm)

SAFETY

Emergency release accessible via the access door at the front of the cabinet. When the door is opened, the door switch prevents the barrier from opening automatically. The barrier can be opened manually using the emergency crank (found on the inside of the cabinet).

MECHANISM

Drive

A motor gearbox drives the double-bearing output intermediate shaft (25mm) by means of a crankshaft connecting rod mechanism on the double-bearing output shaft (35mm). This mechanism ensures smooth acceleration and deceleration of the movement and mechanical locking in the end positions.

Durability

The torque exerted on the arm is always in a safe relationship with the required torque. The combination of the favorable power factor (1.3) and the coupling makes the barrier maintenance-free.

Control system

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

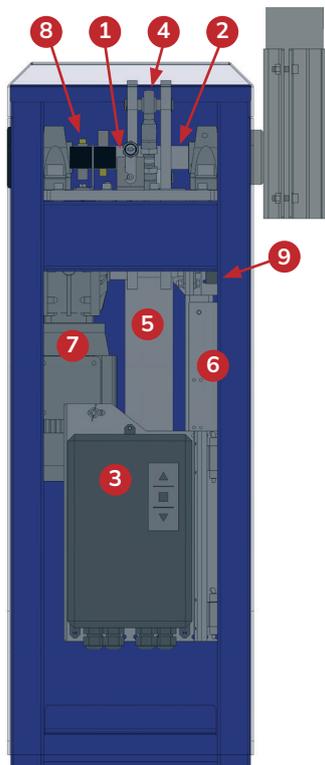
Position detector

The absolute encoder mounted on the output shaft of the gearmotor ensures that the control always knows in which position the barrier arm is located. This gives us constant control over the movement of the barrier arm.

Operating temperature

The MOS23 has an operating temperature of -5°C to 50°C. With the addition of the optional heating element, the operating temperature becomes -30°C to 50°C.

TECHNICAL INFORMATION



1 Door switch

2 Upper shaft

3 Control + motor capacitor

Power supply 1F 230 VAC

Frequency 50 Hz

Power usage 30 Watt

4 Connecting rod

5 Balance spring

6 Terminal strip

7 Motor gearbox with internal slip clutch

Power supply 230 VAC

Frequency 50 Hz

Power consumption 370 Watt

Cosine Phi 0.94

8 Limit switches (optional)

9 Encoder

Positions of barrier arm



Left



Right



Central

ACCESSORIES

Barrier arm



Barrier arm break away



Articulated arm



Folding arm



LED-lighting



Safety strip



Folding support pole

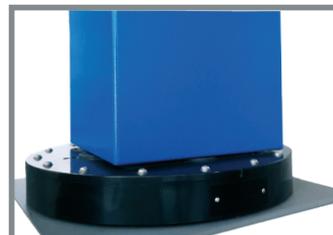
General



Support pole



Support pole with pin bolt



Pivot plate



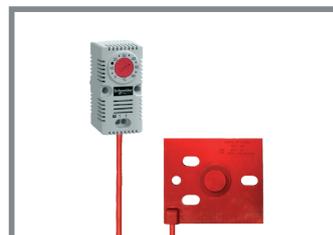
Laser sensor - horizontal



Laser sensor - vertical



Photo cell



Heating mat



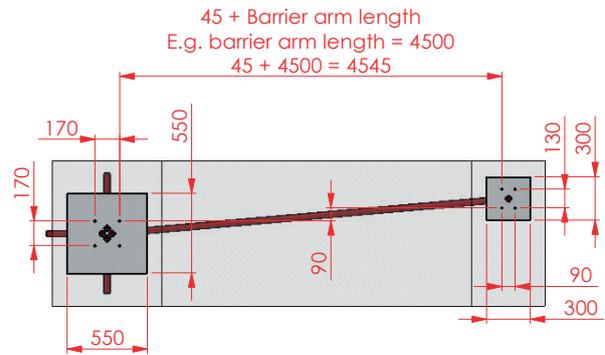
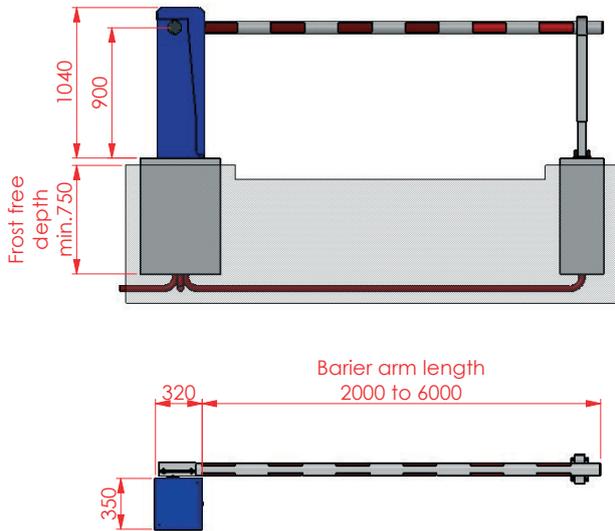
Loop detector - Bircher/FEIG



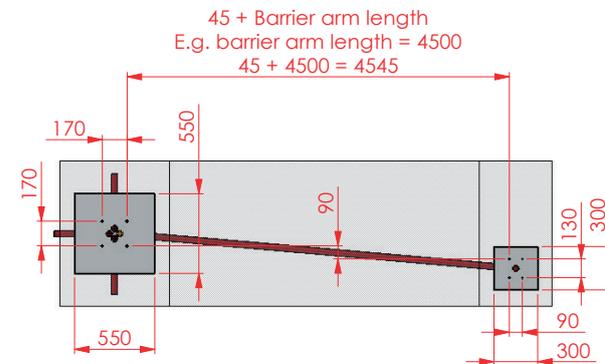
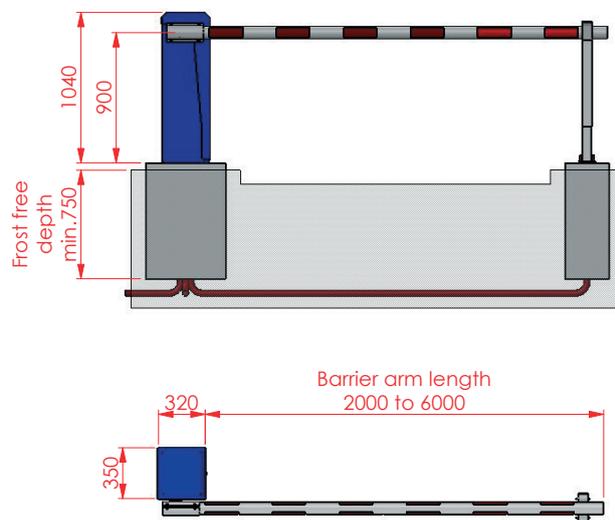
MOS23

TECHNICAL DRAWINGS

MOS23 - right mounted barrier arm

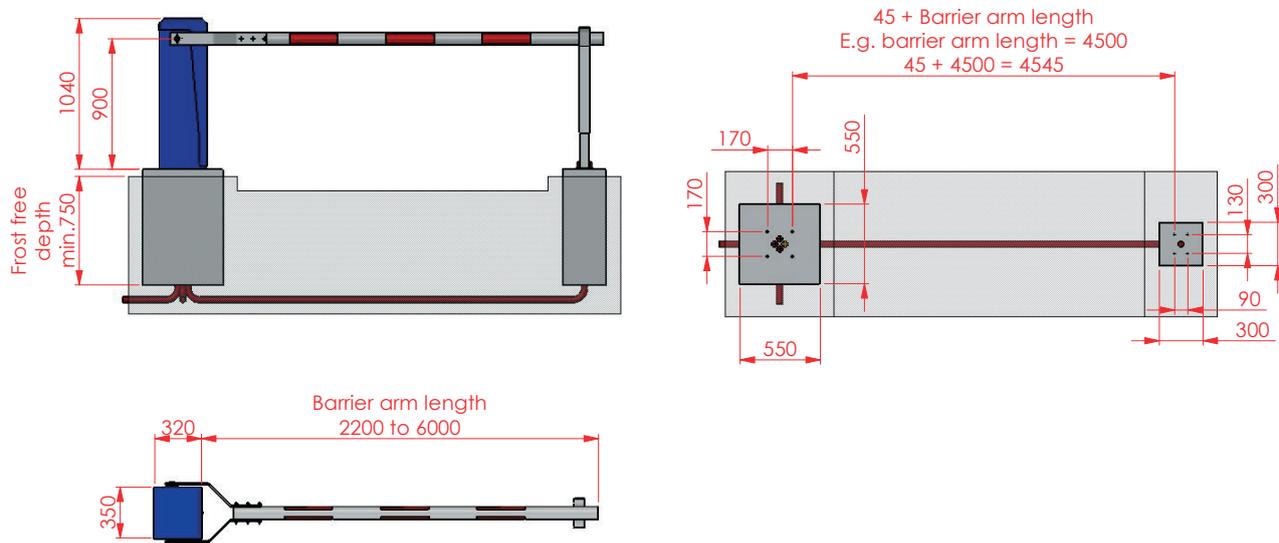


MOS23 - left mounted barrier arm

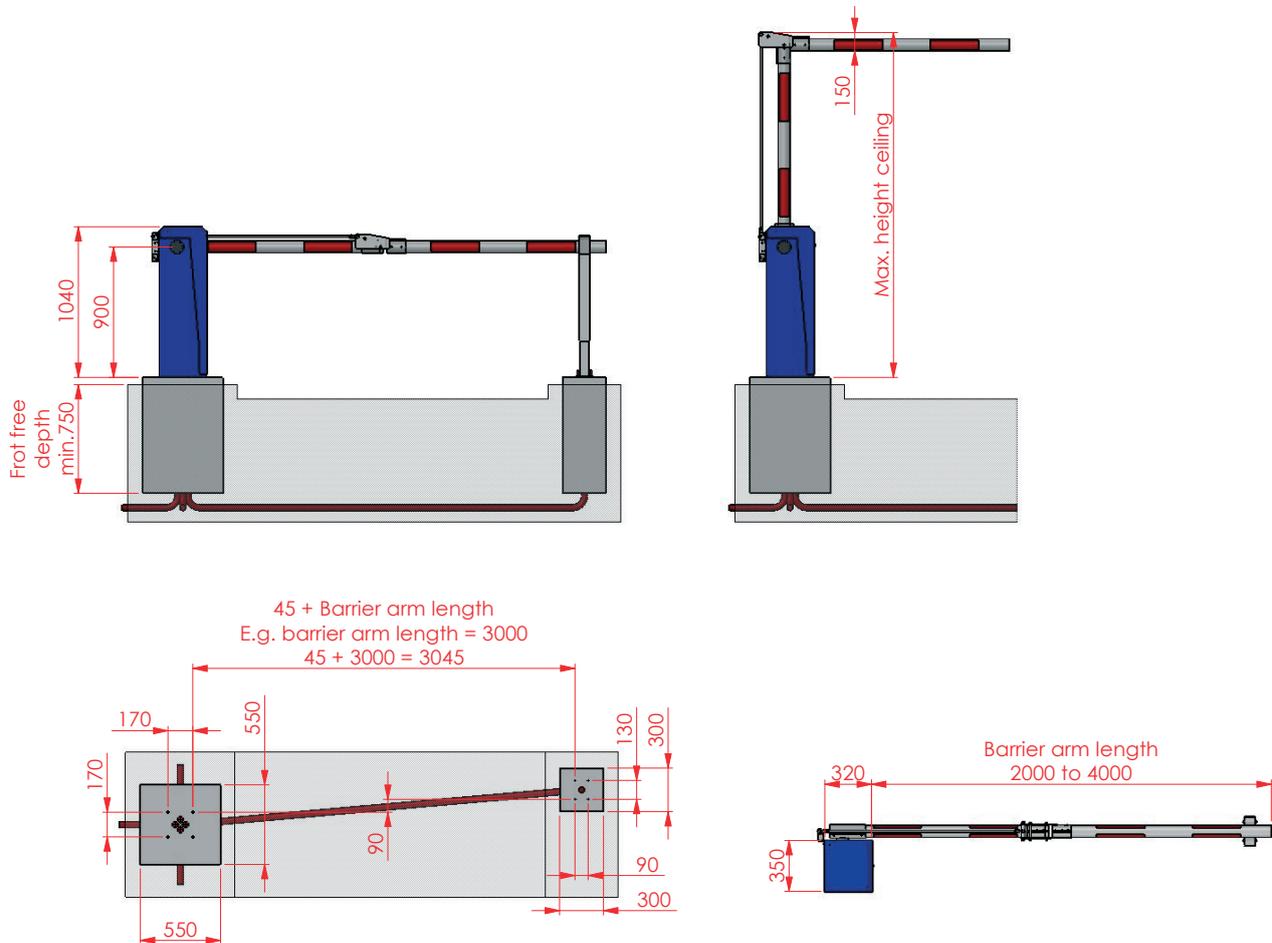


TECHNICAL DRAWINGS

MOS23 - centrally mounted barrier arm

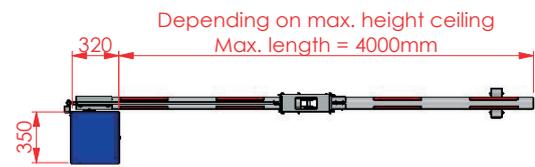
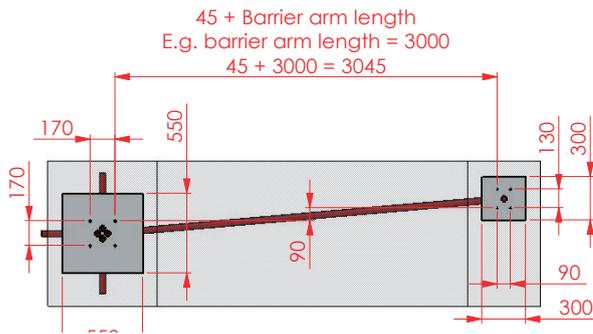
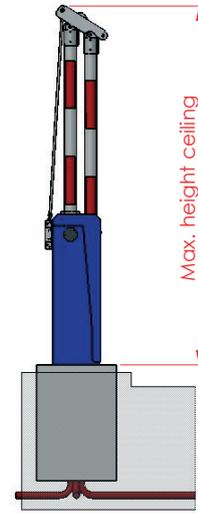
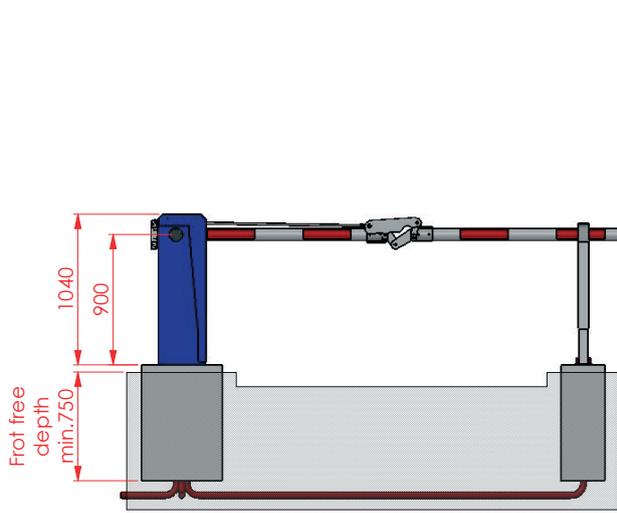


MOS23 - articulated barrier arm



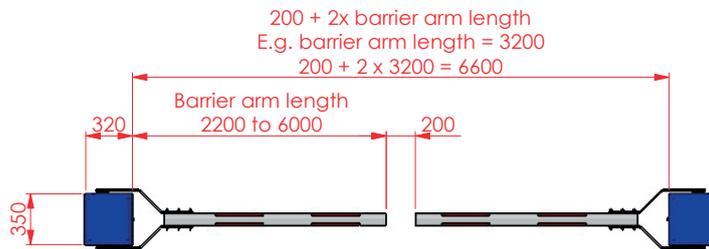
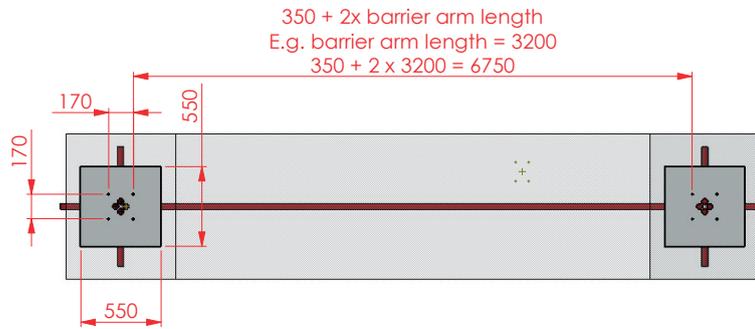
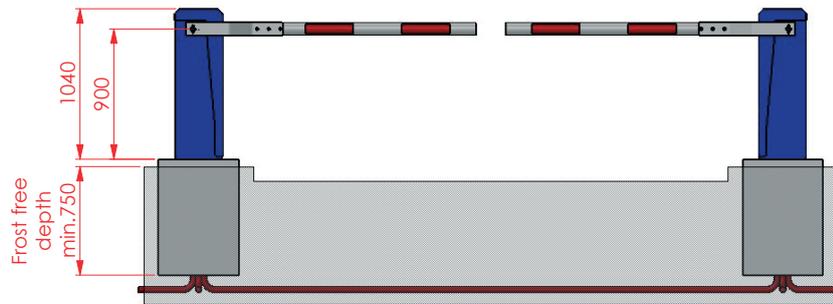
TECHNICAL DRAWINGS

MOS23 - folding barrier arm



TECHNICAL DRAWINGS

MOS23 - Master/slave





**/ YOUR SAFE PARTNER
IN ACCESS**

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