

Barrier systems

Two bearing gate barrier TSD 60 / 45 up to 6m / 4.5 sec.



A proven model suitable for heavy-duty use with a boom length up to 6.0 m, easily replaceable circular aluminium boom with a diameter of 90 mm. Running time 4.5 sec.

Area of application

- Suitable for entrances with passenger car and truck traffic, buses etc.

Standards

Barrier units including control system:

- Machinery Directive 98/37/EWG
- EMC Directive 89/336/EWG
- EN 12978: Area if application exclusively for motor vehicle traffic
- EN 13241-1

Performance features

Housing conception

Modular concept; the basis is particularly robust, galvanised steel chassis with easily replaceable lockable plastic cladding (three-part shells of high grade glass-fibre reinforced plastic).

Movement sequence

Electromechanical drive. Jolt-free movement sequence (sinusoid; that means, slow starting accelerating and moving slowly into the final position).

Locking

Internal, mechanical locking of the barrier boom in the respective final position without counter weight. Self-supporting structure. No endsteady or hinge support necessary as in the case of many suppliers on the market.

Power failure

Securing of the premises even in the event of voltage failure. If the sliding clutch is released the barrier boom can easily be raised.

Boom

Aluminium boom diameter 90mm, colour traffic white (RAL 9016)

Warning stripes

3M special reflectant red stripes on both sides of the barrier boom.

Control conception LB/LC/LCF

LB: Motor contactor circuit for classic gate keeper operation.

LC: Microprocessor control system with slots for two-channel loop detector and radio receiver.

LCF: Microprocessor control unit with frequency converter for the universal operation of all bebarmatic barriers at 230 V single-phase or 400 V tri-phase power supplies: Gentle starting and soft stop with adjustable speed.

Voltage

1 x 230 V / 3 x 400 V (optionally)

Opening Speed

about 4.5 sec

Standard colour of the housing

RAL 5002 (ultramarine)

RAL 2004 (orange)

Weight

about 80 kg



Options

- Product variant TSD 35/25 faster version up to 3.5m and running time 2.5 sec. on request.
- Self-monitoring impact safeguard
- Flashing lamps
- Magnetic locking system
- Impact fork (if absolutely required, since self-supporting structure.)
- Lettering/sticker on barrier housing: 'Warning. Barrier closes automatically after each vehicle.'
- Special colors: all of the usual RAL colors, price on request

Accessoires: Control system LB/LC/LP/LCF and detectors



Modular extension
by means of:

- Module 1 LC double detector
- Module 2 Rolling code radio
remote receiver
- Module 3 LCR relay board

Performance features

LB: Reversing contactor control system for manually controlled barrier systems

- Main switch integrated in the housing
- Service push-button Open-Hold-Closed on the housing cover
- Operation in dead man or latching mode selectable

LC: Microprocessor control system

- Main switch integrated in the housing
- Service push-button Open-Hold-Closed on the housing cover
- Freely selectable parameter profiles
- Visualisation of functions by seven-segment displays and LED's
- 2 floating, freely parameterisable relay outputs
- Integrated evaluation for electric safety liner
- CE compliant and tested by TÜV (German Technical Supervisory Agency)
- Temperature range -20 to +50°C ambient temperature
- Interface RS 485
- Wide range power pack; control voltage 24 V DC
- System of protection IP54

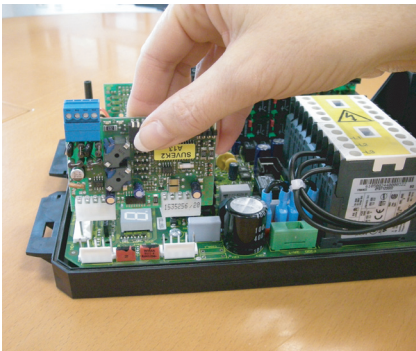
LCF: Microprocessor control unit with frequency converter

All functions as LC, additional:

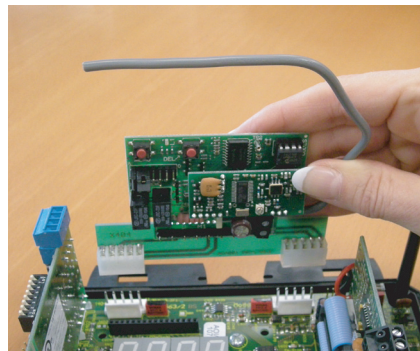
- For operation with power supplies at 230 V single-phase or 400 V tri-phase
- 3rd relay output
- Gentle starting & soft stopp
- Adjustable speed

LP: Control system (synchronous operation of two barriers)

- Display of the operating conditions in plain writing
- Limit switch monitoring of both barriers
- Adjustable positive closing
- Double detector
- Optionally 2 securing induction loops or one opening and one securing induction loop each
- Connection for photoelectric barrier for additional securing of the unit
- Individual special programming possible
- Temperature range -10 bis +50°C ambient temperature
- Control voltage 24 V DC
- Type of protection IP 65

Module 1 Double Detector**Performance features**

- Double channel detector for two induction loops in multiplex function
- Micro processor control system with adjustable responsivity
- Automatic adjustment to the connect loops
- Diagnostic system

Module 2 Rolling control radio remote receiver

(rolling code)

Performance features

- One-channel detector as plug-in module
- Receiving frequency 433 MHz
- Quartz-controlled digital transmission
- Permanently changing code for higher security (rolling code), 2⁶⁶
- Range up to 50m depending on constructional surroundings
- Possibility of storing for up to 300 users
- After start-up radio transmitters can be programmed from outside the installation



Hand-held radio transmitter
(433 MHz) 2 or 4-channel
hand-held transmitter