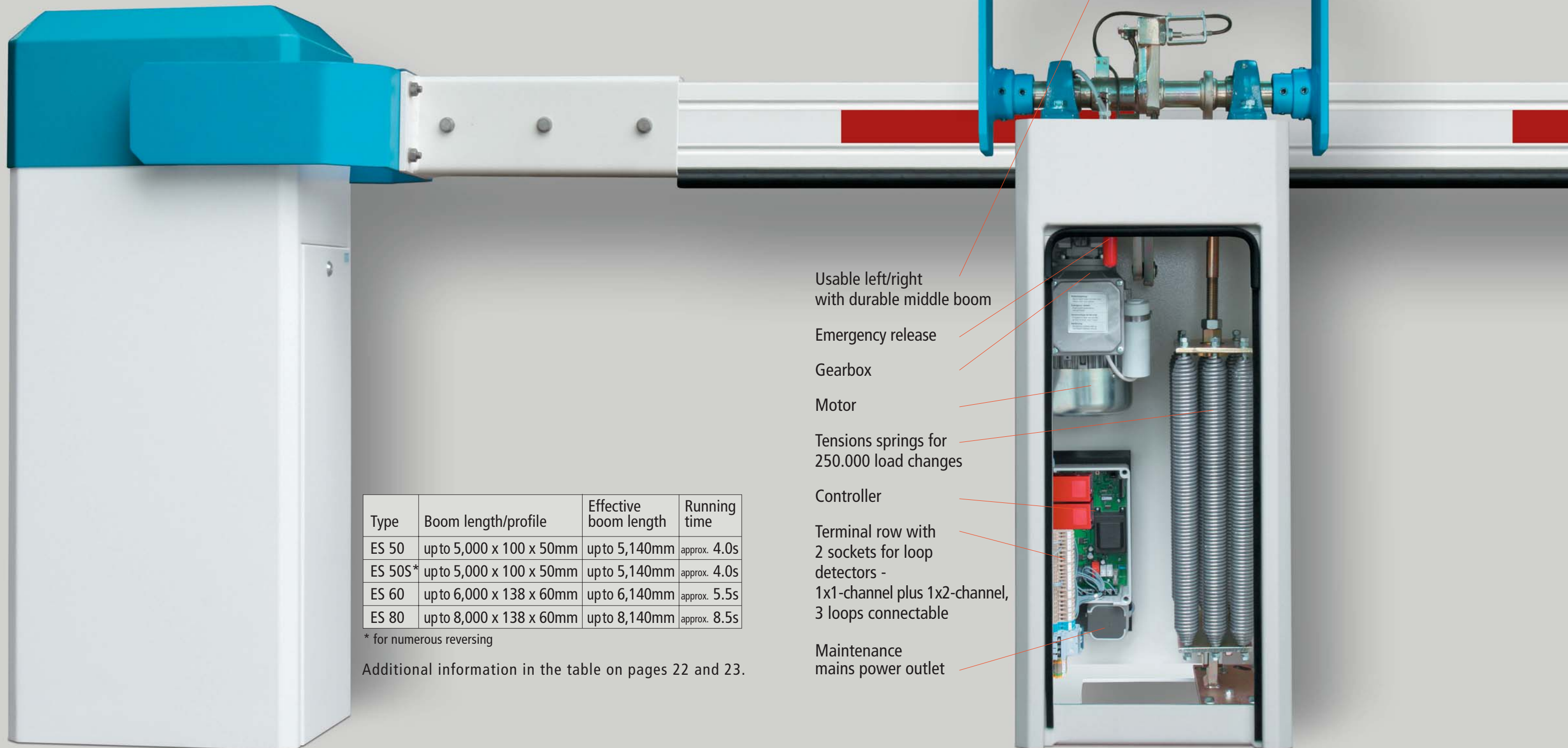


Barriers ES 50 to ES 80 for industry



Type	Boom length/profile	Effective boom length	Running time
ES 50	upto 5,000 x 100 x 50mm	upto 5,140mm	approx. 4.0s
ES 50S*	upto 5,000 x 100 x 50mm	upto 5,140mm	approx. 4.0s
ES 60	upto 6,000 x 138 x 60mm	upto 6,140mm	approx. 5.5s
ES 80	upto 8,000 x 138 x 60mm	upto 8,140mm	approx. 8.5s

* for numerous reversing

Additional information in the table on pages 22 and 23.

Usable left/right
with durable middle boom

Emergency release

Gearbox

Motor

Tensions springs for
250.000 load changes

Controller

Terminal row with
2 sockets for loop
detectors -
1x1-channel plus 1x2-channel,
3 loops connectable

Maintenance
mains power outlet

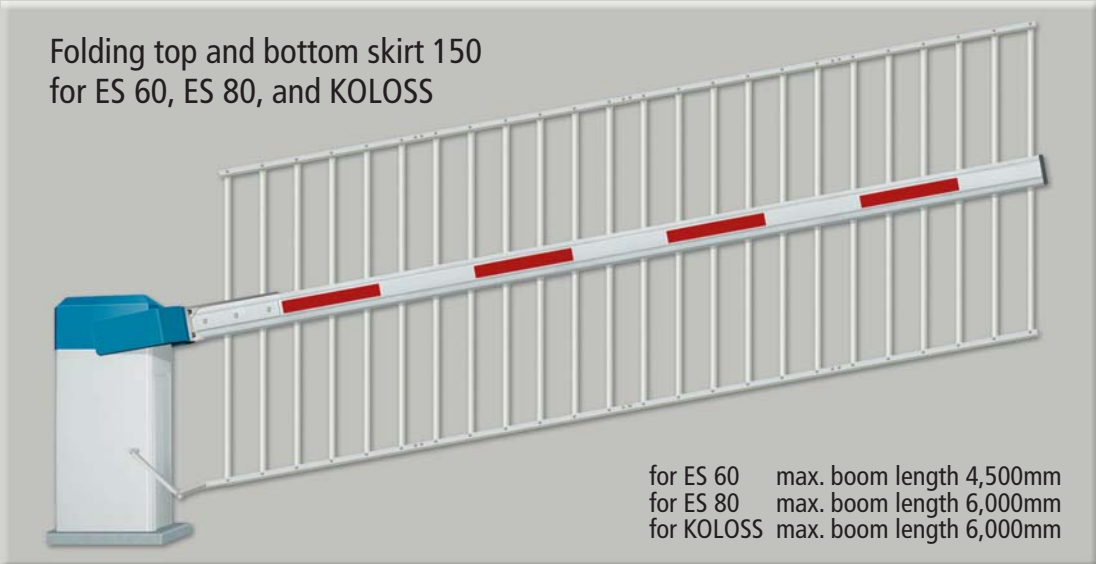
Folding skirts and folding top and bottom skirts



Folding skirt 75,
flat-rolled aluminium,
15x3mm,
white or red/white,
750mm high,
weight: 1.5kg/m



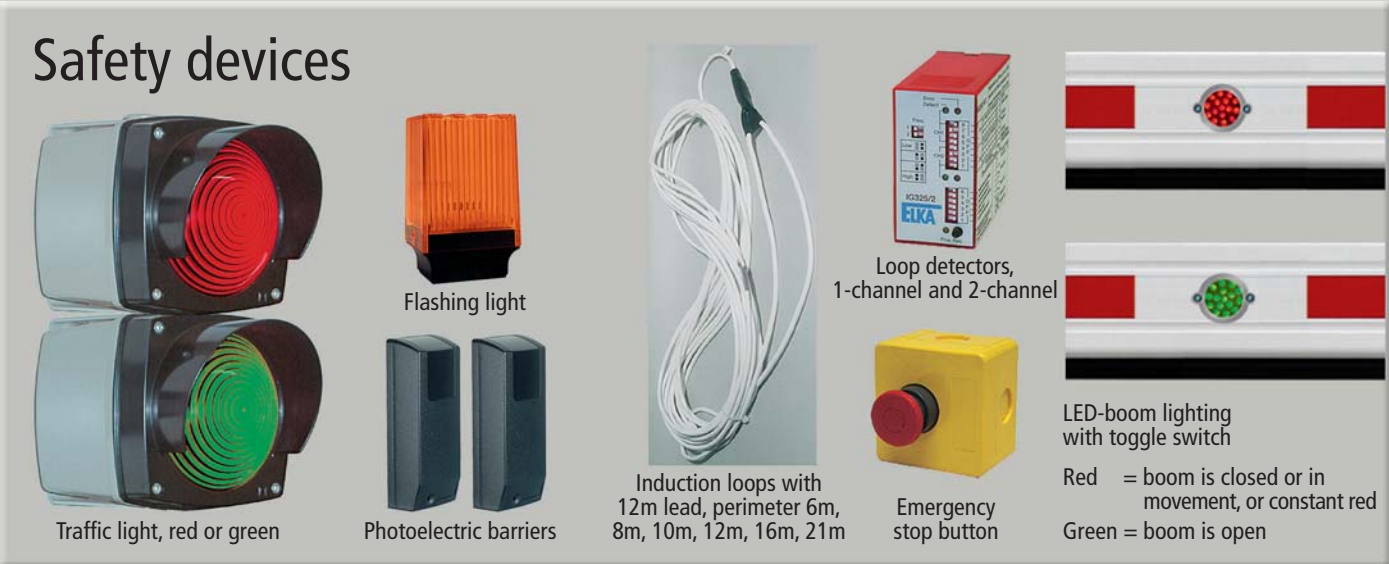
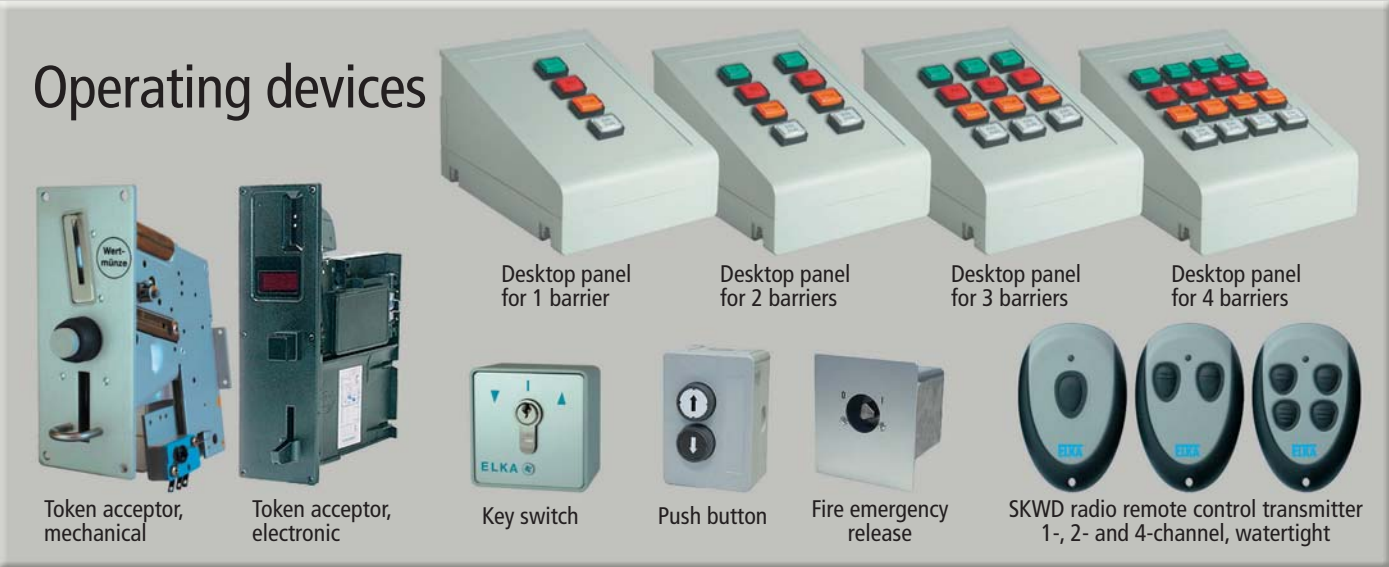
for ES 60 max. boom length 4.500mm
for ES 80 max. boom length 6.000mm
for KOLOSS max. boom length 6.000mm



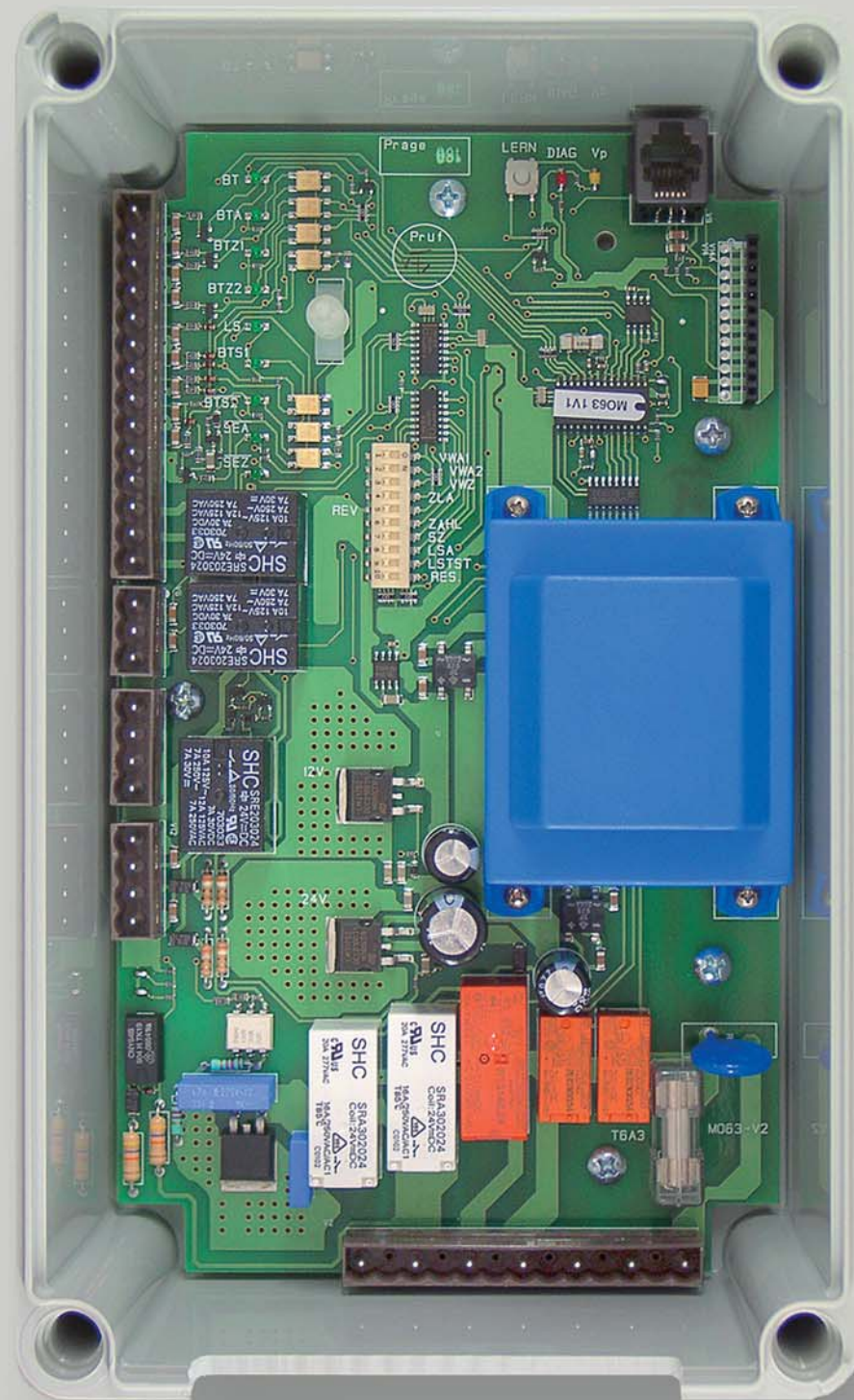
for ES 60 max. boom length 4,500mm
for ES 80 max. boom length 6,000mm
for KOLOSS max. boom length 6,000mm

Folding top and
bottom skirt 150,
aluminium circular
tubes, 20mm,
white or red/white,
1,500mm high,
weight: 3.5kg/m

Barrier Accessories



Barrier controller MO 63 for many million cycles



Basic details

- For ES 25 to ES 80 and KOLOSS 60 to KOLOSS 120
- Power supply 230V/50Hz

Obvious details

- Information is saved during current failure
- Automatic closure, programmable (0-300s)
- Pre-warning time OPEN, selectable (1.5s or 4s)
- Pre-warning time CLOSE, selectable (4s)
- One-button operation for serial switching or three-button operation for OPEN-STOP-CLOSE
- Flashing light and traffic light for status indication connectable
- Indication boom open/closed
- Socket for 434MHz radio remote control

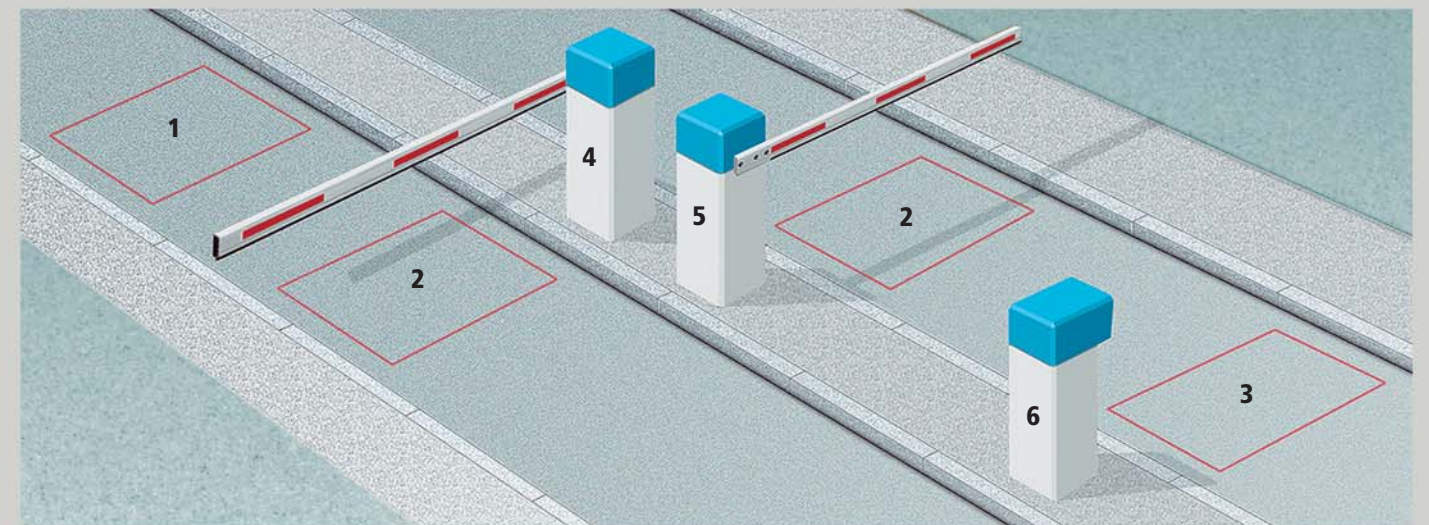
Professional details

- TRIAC-relays for 5,000,000 movements
- Running time control
- Re-opening on obstacles
- Photo-cell connection for 6 photo-cells with patented testing function
- 12Vdc and 24Vdc supply for periphery equipment, 500mA, stabilised

Suitable for parking decks

- The barrier reverses immediately after a definite closing signal (selectable)
- After two opening signals the barrier closes after the second closing signal (selectable)

Induction loop for unobstructed entrance and exit



1 Induction loop for automatic opening 2 Induction loop for safety and closing 3 Induction loop indicating that a vehicle is present 4 Exit barrier 5 Entrance barrier 6 Entrance terminal with access control

4 Variants

Variant 1

Access control e.g. with a key switch, when a vehicle is on the loop. Automatic exit with an opening loop. Safety of vehicles under the boom and closing of the barrier with induction loop.

Variant 2

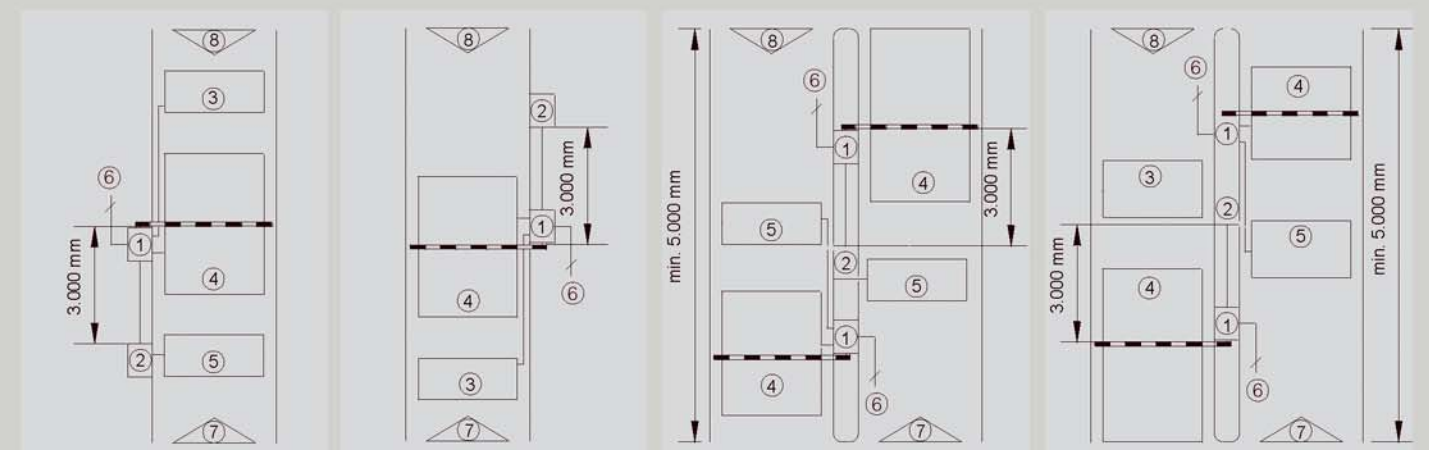
Automatic entrance with an opening loop. Exit controls e.g. with tokens. Safety of vehicles under the boom and closing of the barrier with induction loop.

Variant 3

Access control e.g. with a key switch, when a vehicle is on the loop. Safety of vehicles under the boom and closing of the barrier with induction loops.

Variant 4

Access control e.g. with a key switch, when a vehicle is on the loop. Automatic exit with an opening loop. Safety of vehicles under the boom and closing of the barrier with induction loops.



1 Barrier 2 Access control devices 3 Opening loop 4 Safety/closing loop 5 Presence loop 6 Mains supply 7 Entrance 8 Exit

Table electromechanical barriers

Technical Data	ES 25HS	ES 25	ES 30HS	ES 30	ES 40	ES 40S	ES 50	ES 50S	ES 60	ES 80	KOLOSS 60	KOLOSS 90	KOLOSS 120	MAUT 25	MAUT 30	MAUT 35
Application	for vehicle traffic only			with safety devices alsofor pedestrian-traffic according to DIN 12445 and 12453		for vehicle traffic only	wie ES 60	for vehicle traffic only	with safety devices alsofor pedestrian-traffic according to DIN 12445 and 12453		for vehicle traffic only					
Duty cycle	100%									100%						
Running time (approx.)	0.9s	1.4s	1.4s	2.3s	3.2s	3.2s	4.0s	4.0s	5.5s	8.5s	6.0s	9.0s	12.0s	0.6s	0.9s	1.4s
Boom length (mm)	2,500	2,500	3,000	3,000	4,000	4,000	5,000	5,000	6,000	8,000	6,000	9,000	12,000	2,500	3,000	3,500
Effective boom length max. (mm)	2,280	2,280	2,780	2,780	3,780	3,780	5,140	5,140	6,140	8,140	6,000	9,000	12,000	2,260	2,760	3,260
Boom dimensions h/w (mm)	100 x 25	100 x 25	100 x 25	100 x 25	100 x 25	100 x 25	100 x 50	100 x 50	138 x 60	138 x 60	170 x 140	170 x 140	170 x 140	Ø 60	Ø 60	Ø 60
Boom weight (kg)	4.0	4.0	4.7	4.7	6.0	6.0	10.0	10.0	16.5	23.0	27.0	58.0	71.5	2.0	2.3	2.6
Round boom for vehicle traffic only	Ø 60mm, optional						Ø 100mm, optional				no			supplied with Ø 60mm		
Swinging support (for vehicle traffic only) or fixed support	no				optional		required				optional	required		no		
Articulated boom (for vehicle traffic only) optional	yes									no				no		
Hanging skirt 75, optional	no						yes						no		no	
Hanging skirt 150, optional	no								max. 4,500mm long	max. 6,000mm long				no		
Top and bottom skirt 150, optional	no								max. 4,500mm long	max. 6,000mm long				no		
Housing	aluminium, powder coated RAL 5012/ 9010, all RAL-colours optional								aluminium, powder coated RAL 5012/ 9010, all RAL-colours optional							
Housing dimensions w x l x h (mm)	300 x 350 x 1,100						450 x 400 x 1,100				720 x 656 x 1,250			300 x 350 x1,100		
Foundation (mm) on site, frost-free	550 x 500						600 x 650				1,200 x 1,200			550 x 500		
Barrier weight approx. (kg)	48	48	48	48	48	50	110	110	115	118	415	430	465	47.5	47.5	47.5
Controller	MO 63								MO 63				frequency converter			
Reversing on obstacle	yes								yes				no			
Socket for loop detector	1-channel plus 2-channel, 3 loops connectable								1-channel plus 2-channel, 3 loops connectable				1-channel			
LED boom lighting with toggle switch, integrated into the boom, optional	green = boom is up, red = boom is down or moving, or constant red (not for round boom)												no			
Mains supply	230V/50Hz								230V/50Hz				230V/50Hz			
Drawn power	0.37kW	0.37kW	0.37kW	0.25kW	0.26kW	0.26kW	0.26kW	0.37kW	0.25kW	0.26kW	0.55kW	0.55kW	1.10kW	0.37kW	0.37kW	0.37kW
Max. current	2.5A	2.5A	2.5A	2.5A	3.1A	3.1A	2.5A	2.5A	2.5A	3.1A	7.0A	7.0A	10.0A	2.5A	2.5A	2.5A
Drilling template	yes								yes				yes			

We reserve the right to make alternations

Table manual barriers

Technical Data	EH 25L	EH 30L	EH 35L	EH 40L	EH 45L	EH 50L	EH 55L	EH 60L	EH 65L	EH 70L	EH 75L
Effective boom length (mm)	2,500	3,000	3,500	4,000	4,500	5,000	5,500	6,000	6,500	7,000	7,500
Boom dimensions (mm)	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50
Boom weight (kg)	5.3	6.4	7.4	8.4	9.5	10.5	16.6	17.6	18.7	19.7	20.7
Stabilisation rope	no						yes				
Swinging support fixed support	optional			required							
Counterweights (quantity)	0	2	2	2	4	6	12	14	16	18	20

We reserve the right to make alternations