



Machine Protection Door RapidProtect™ 2000

Protection and Safety for Automated Processes



Next generation of intelligent
door control systems

INTERIOR EXTERIOR
PROCESS SERVICE

Machine Protection Door RapidProtect™ 2000



DESIGN

The RapidProtect™ 2000 machine protection door is equipped with a very solid curtain made of aluminium slats that are connected laterally via flat belts and rolled up without touching each other. The result: very high speed, low operating noise, long maintenance intervals and long service intervals. Another advantage: individual slats can be easily replaced if required. The side frames of the RapidProtect™ 2000 are self-supporting and consist of galvanised steel sheet sections. The door slats can be powder-coated in many RAL colours. The door can also be equipped with motor and top roll covers if required.

DOOR CURTAIN

The slats are made of anodised aluminium as standard. They can be equipped with windows made of polycarbonate (250 x 40 mm) as an option. Number of windows depends on the door width.

DRIVE UNIT

Gear motor mounted on the right or left hand side of the door.

CONTROL SYSTEM

The door is operated with the powerful MCC^{VectorControl} control system that allows highly dynamic door operation with an opening speed of up to 2,3 m/s and a closing speed of up to 1,3 m/s, resulting in very short cycle times. The RapidProtect™ 2000 door is designed for continuous operation with up to five cycles per minute.

MANUAL ACTIVATION

In the event of a power failure the door can be operated by releasing the brake manually. Depending on the width/height ratio, the door opens partly by the pre-tension springs.

SAFETY FEATURES

This door is designed according to the regulations of the Workplace Directive of the UVV as well as the harmonized CE Guidelines including the EN 13241-1.

INDICATION OF RISK

The security of the door is designed for normal use for vehicles in industrial environment corresponding to the harmonized CE-Guidelines. Next to this, special environmental conditions may have impact on the right choice of doortype. In case of any doubt, please contact our sales engineer to receive consulting in your application.

Technical Data	RapidProtect™ 2000
Application	machine protection
Door dimension (mm)	
DW min./max.	600 / 3000 mm
DH min./max.	1000 / 3000 mm
Opening direction	vertical
Surface	
Side frame	galvanised steel
RAL-Colours	•
Covers	
Top roll cover	• ¹⁾
Motor cover	• ¹⁾
Door curtain	
Anodised aluminium	✓
RAL-colours	•
Slats with windows	•
Drive unit	electrical
Motor power	1,1 kW
Control system	MCC ^{VectorControl}
Safety	
Pre-running safety photocell	✓
Door line photocell	•
Counterbalance	✓
Self opening	partial
Speed (m/s)	
Open up to max.	2,3 m/s
Close up to max.	1,3 m/s
Fuse protection	12 A
3L(N)/PE/380/400/415/440/480V;50/60 Hz	✓ ²⁾
Control voltage	24 V DC
Protection	IP 55
Installation without support frame	•
✓ Standard • Option	

¹⁾ For doors of height < 2500 mm the use of top roll cover is required according to standard EN 13241-1.

²⁾ Transformer necessary for 220/230/500 V.

Machine Protection Door RapidProtect™ 2000



APPLICATION

- Production line
- Automatic welding systems
- Cutting systems
- Milling machines
- Workpiece handling
- Tool handling
- Presses
- Conveyor systems
- Elevator and high-bay storage systems

ADVANTAGES OF ALBANY RAPIDPROTECT™ 2000

- Due to its solid door blade the roll door can be installed a short distance from the machine
- Suitable for universal use indoors
- Rapid opening and closing ensures a short cycle time
- Protection against flying sparks, dust, noise or welding splatter
- Personnel protection in machine danger zones
- Safety limit switches according to EN ISO 13849-1 and EN 62061
- Doors conform to EN ISO 12100 and EN 1088
- Microprocessor control of the door allows individual programming to meet customer special needs
- Versions conforming to various factory standards are possible
- High reliability even after years of high numbers of cycles

CONNECTING TO THE MACHINE

- Potential-free safe contacts for "Door closed"
- Output "Door open"
- Output "Door closed"
- Output "Fault"
- Machine is controlling the door by potential-free contacts

SAFETY FEATURES

- Safety limit switches according to PL e EN ISO 13849-1, SIL 3 EN 62061
- Delivered with safety monitoring module as standard
- Optional evaluation by the machines safety systems (versions without safety monitoring module)



To save space, MCC^{VectorControl} is mounted under the drive unit. Top roll and motor cover as option.

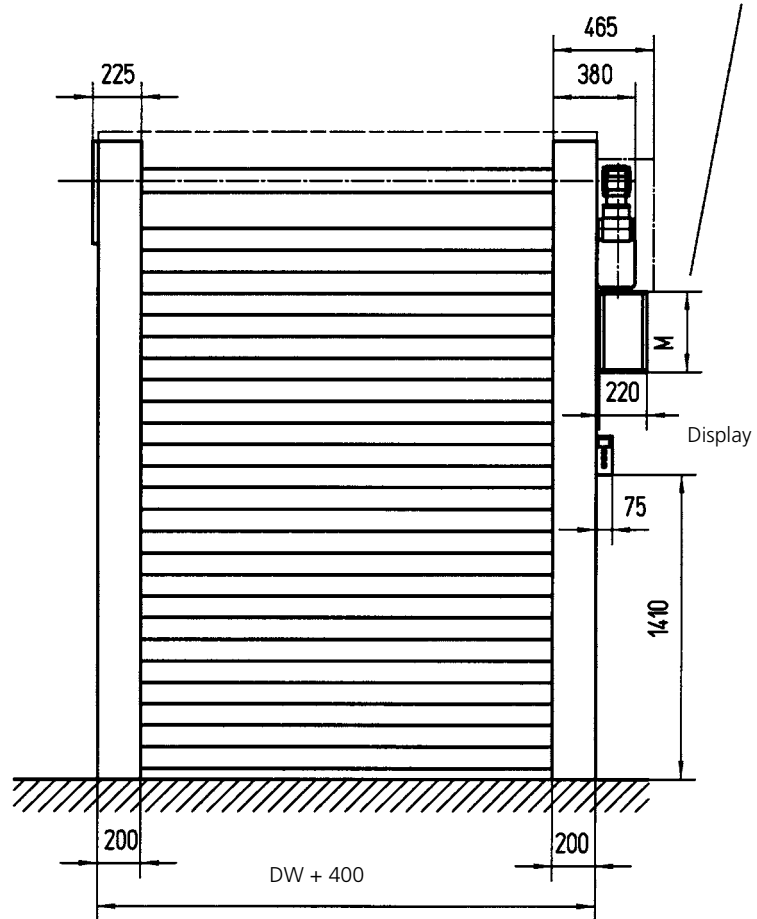
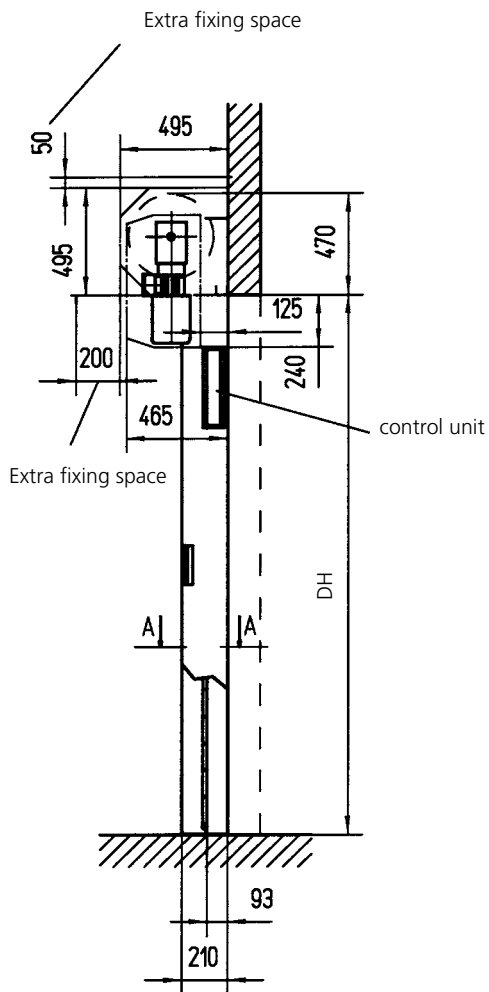


Pre-running safety photocell(1) and door line photocell (2) for high protection.

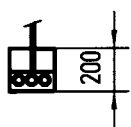


The safety limit switches are integrated in the side frame to save space. Transparent covers allow easy monitoring and easy access.

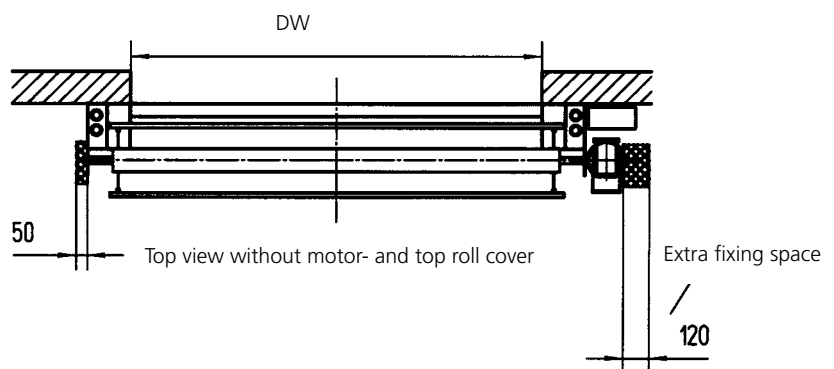
Control system
 - standard: M 375
 - with extension box: M 540



view A - A



Extra fixing space



Machine Protection Door RapidProtect™ 2000



SIDE FRAME

Made of galvanised steel.

MOTOR COVER¹⁾

Standard without motor cover.
As option: Motor cover made of grey plastic or metal.

CONTROL BOX

The door is equipped with MCC^{VectorControl} for smooth, dynamic door operation and allows short cycle times.

SAFETY FEATURES

The door has a pre-running safety photocell. As option a door line photocell can be chosen. The doorline photocell also prevents the door from closing when objects are interfering.

SAFETY LIMIT SWITCHES

For the query "door safely closed," safety limit switches according to PL e EN ISO 13849-1, SIL 3 EN 62061 are integrated in the side frame.



TOP ROLL

Made of aluminium.

TOP ROLL COVER¹⁾

Standard without top roll cover.
As option: top roll cover made of anodised aluminium.

MOTOR POSITION

Motor can be fitted on the right- or lefthand side.

DOOR CURTAIN

As standard slats made of anodised aluminium.

WINDOWS

For process monitoring when the door is closed, slats with windows (250 x 40 mm) made of polycarbonate are optionally available. The number of windows for each slats is depending of the width of the slat.

COLOURS

The standard aluminum slats can be delivered in a number of RAL colours.

Note:

¹⁾ For doors of height < 2500 mm the use of top roll and motor cover is required according to standard EN 13241-1.



Products shown may include optional accessories.

MCC^{VectorControl}



MCC^{VectorControl} is integrated in the door design and mounted under the drive. Top roll and motor cover as option.

SAFETY LIMIT SWITCHES



For the query "door safely closed," safety limit switches according to PL e EN ISO 13849-1, SIL 3 EN 62061 are integrated in the side frame.

OPTIONAL WINDOWS



For process monitoring when the door is closed, slats with windows (250 x 40 mm) made of polycarbonate are optionally available.

OPTIONAL WEBBED FOOT PLATES FOR STAND ALONE ASSEMBLY



With use of webbed foot plates the door can be mounted on the floor without using a support frame. With help of leveling screws the door can easily be adjusted in a horizontal position.

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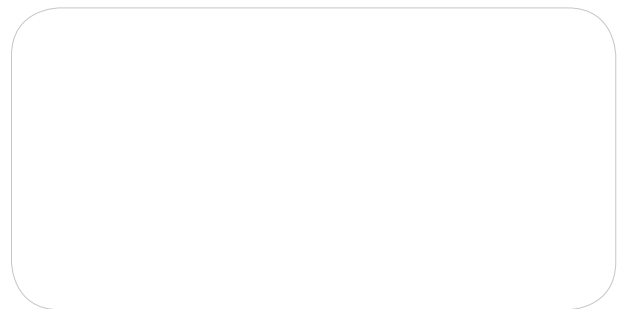
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