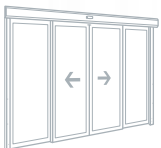


Activa+[®]

Elegance and technology in 10 cm



manusa 
Automatic doors

Activa+[®]



Robust profiles
Up to 5 mm thick



Hinged cover
Front cover with rubber hinge with quick access to the drive unit, making maintenance easier



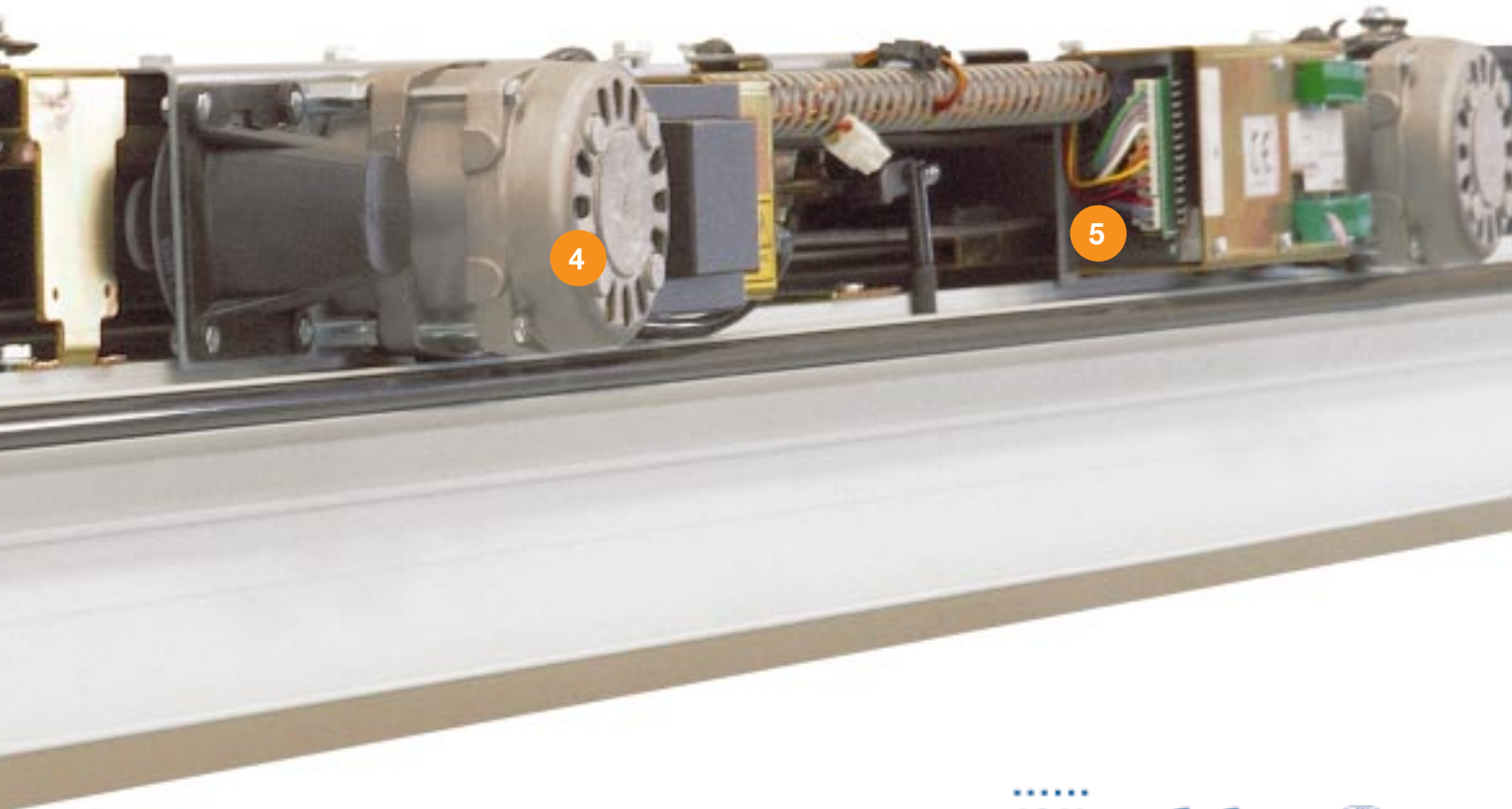
Independent track rail
Insulated and easy to replace, provides smooth and silent operation



Robust three phase AC motors
without reduction gear. With 5-year guarantee



Revolutionary electronic board
32-bit microprocessor and exclusive inverter technology with independent adjustment of voltage and frequency (VVVF)



MANUSA TECHNOLOGY

- ✓ Design and elegance in a 10 cm header frame
- ✓ Fast and easy installation
- ✓ Universal motor group
- ✓ A unique inverter technology exclusive of Manusa provides independent adjustment of force and speed (VVVF)
- ✓ Three phase AC motors without reduction gear, to guarantee a silent operation
- ✓ Electronic board with 32-bit microprocessor
- ✓ Two trolleys per leaf with large diameter wheels
- ✓ Crossed dragging arms for quick installation
- ✓ Magnetic encoder to determine the position, direction and speed of the door leaves
- ✓ ManuLink: centralisation and management of up to 256 Manusa doors from a remote PC
- ✓ ManuTel: maintenance from a remote PC via landline or GSM modem

MAXIMUM SAFETY

- ✓ Connection for 2 photocell barriers
- ✓ Emergency fail-safe batteries to open the door in the event of power failure. Parameters resume when power is restored
- ✓ Safety stop/reverse
- ✓ Automatic compensation of friction
- ✓ Independent adjustment of parameters: opening speed, closing speed, closing force, hold-open time, closing delay time and reduced opening
- ✓ Continuous self-monitoring with immediate alert of malfunctions via digital display (optional)
- ✓ Active IR sensor with motion and presence detection
- ✓ Emergency push button (optional)
- ✓ Bi-stable automatic lock (optional)
- ✓ Automatic self-adjustment on turning power on

TYPES OF LEAVES

| | ACTIVA+ II (2 motors) | | ACTIVA+ I (1 motor) | |
|---|-----------------------|--------------|---------------------|--------------|
| | Bi-part | Single slide | Bi-part | Single slide |
| All glass (T20 and R20) | ✓ | ✓ | ✓ | ✓ |
| All glass with top and bottom rails (D20 and F20) | ✓ | ✓ | ✓ | ✓ |
| 20 mm framed (E20) | ✓ | ✓ | ✓ | ✓ |
| 30 mm interlocking (I30) | - | - | - | - |
| 44 mm framed (C44) | - | - | - | - |

TECHNICAL FEATURES (*)

| | ACTIVA+ II (2 motors) | | ACTIVA+ I (1 motor) | |
|--|-----------------------|----------------------|----------------------|----------------------|
| | Bi-part | Single slide | Bi-part | Single slide |
| Operator height | 100 mm | 100 mm | 100 mm | 100 mm |
| Maximum clear opening | 2000 mm | 1400 mm | 2000 mm | 1000 mm |
| Maximum weight per leaf | 2x90 Kg | 1x120 Kg | 2x60 Kg | 1x90 Kg |
| Relative opening speed (bi-part), adjustable | 100 - 140 cm/s | - | 100 - 140 cm/s | - |
| Opening speed per leaf, adjustable | 50 - 70 cm/s | 50 - 70 cm/s | 50 - 70 cm/s | 50 - 70 cm/s |
| Closing speed per leaf, adjustable | 15 - 40 cm/s | 15 - 40 cm/s | 15 - 40 cm/s | 15 - 40 cm/s |
| Closing force, adjustable | 40 - 150 N | 40 - 150 N | 40 - 150 N | 40 - 150 N |
| Acceleration | 1.2 m/s ² | 1.2 m/s ² | 1.0 m/s ² | 1.0 m/s ² |
| Independent adjustment of speed and force | YES | YES | YES | YES |

COMMON FEATURES

| | |
|---|--|
| Power supply | 230 V - 50/60 Hz (115 V - 50/60 Hz under request) |
| Motor (5-year guarantee) | 1 or 2 brushless three-phase AC motors, without reduction gear |
| Inverter technology (exclusive of Manusa) | Independent adjustment of Voltage and Frequency (VVVF) |
| Environment temperature range | -20° to +65°C |
| Rechargeable fail-safe batteries | 1 x 24 DC 400 mA |
| Safety stop/reverse | YES |
| Infrared barriers | 1 or 2 |
| Fuse protection | 2 Amp |
| Motion transmission | Crossed dragging arms |

APPLICABLE EUROPEAN STANDARD prEN 12650

| | |
|-------------------------------|---------------------------------------|
| Low voltage | 73/23/CEE |
| Electromagnetic compatibility | 89/336/CEE (AS 4251.1) |
| Construction products | 89/106/CEE |
| Safety of machinery | 89/392/CEE 91/368/CEE 93/44/CEE |

Accessories

(*) See technical features in the individual brochures of each product



Rotative key selector



Optima selector



Remote control



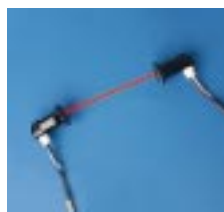
Automatic lock



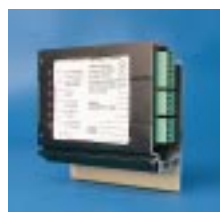
Infrared sensor



Touch-less IR switch



IR photocell beams



Basic and air-lock
Interface (I/O module)



ManuLink software

Other accessories available

- Outside key switch
- Manual floor lock
- Emergency push button
- Microwave radar
- Numeric key-pad
- Buzzer
- Opening push button
- Manutel: remote maintenance via modem