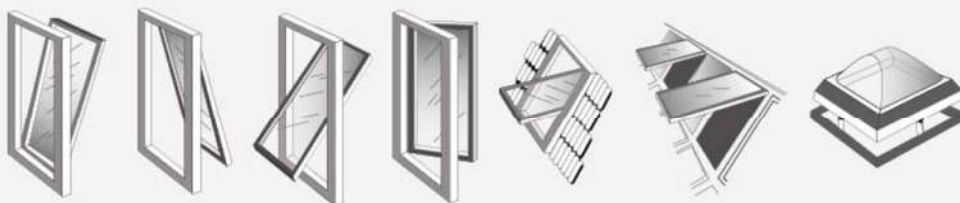


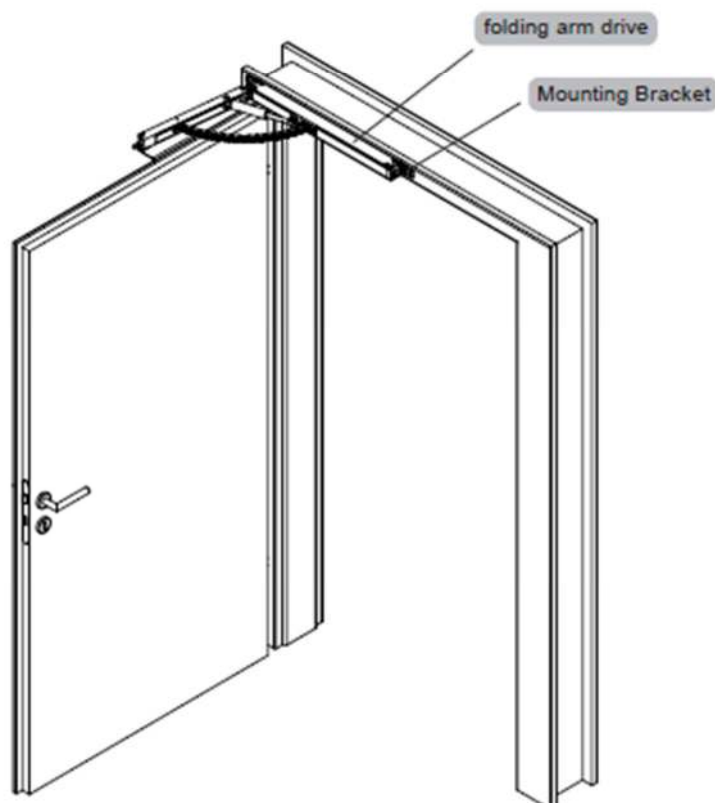
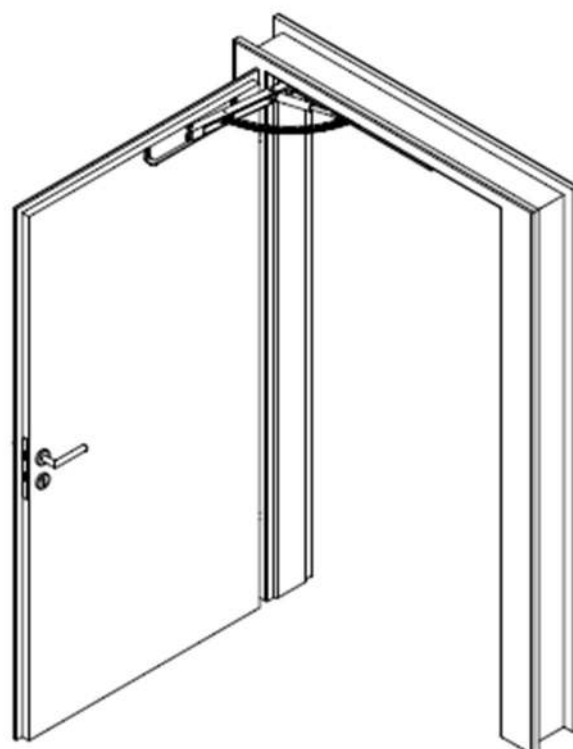
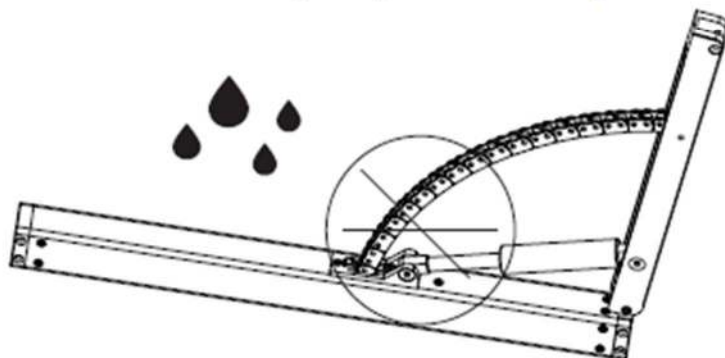
VS-TA-400 Door Actuator 24V



Installation Diagram

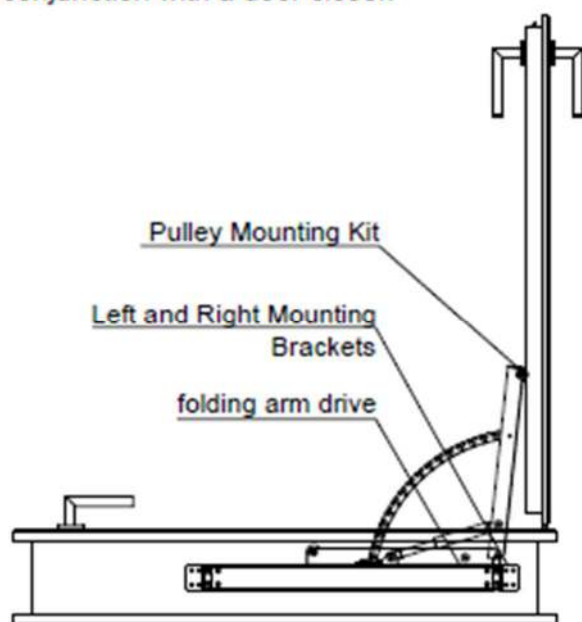
Notes:

- Ensure the mounting brackets are flush with the door frame.
- The spacing between the two mounting points should be slightly longer than the actuator.
- After installation, the folding arm drive must rotate freely without lateral movement.
- Always orient the chain outlet downward or horizontally to maintain IP32 rating and prevent water ingress.

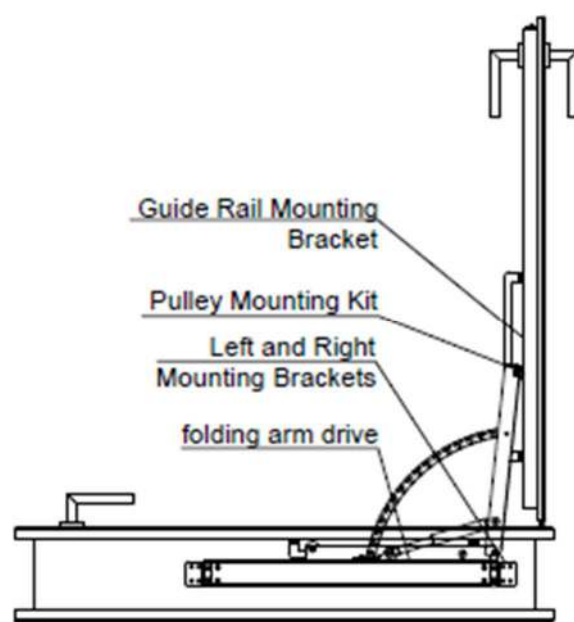


Installation Method One

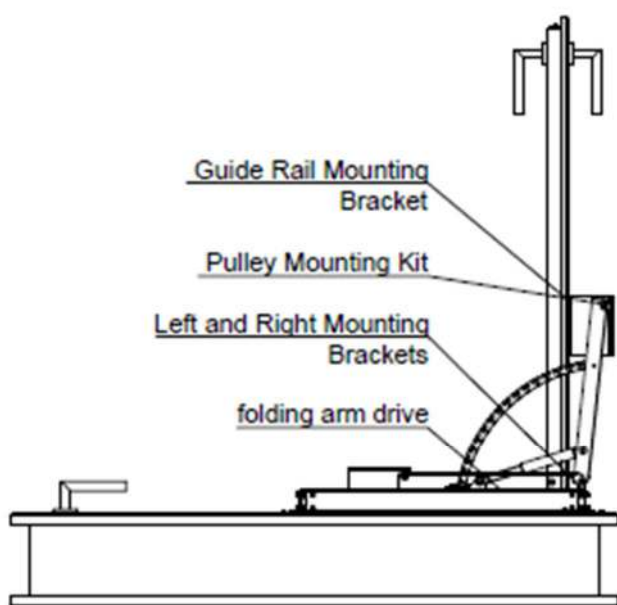
Note: This installation method must be used in conjunction with a door closer.



Installation Method Two

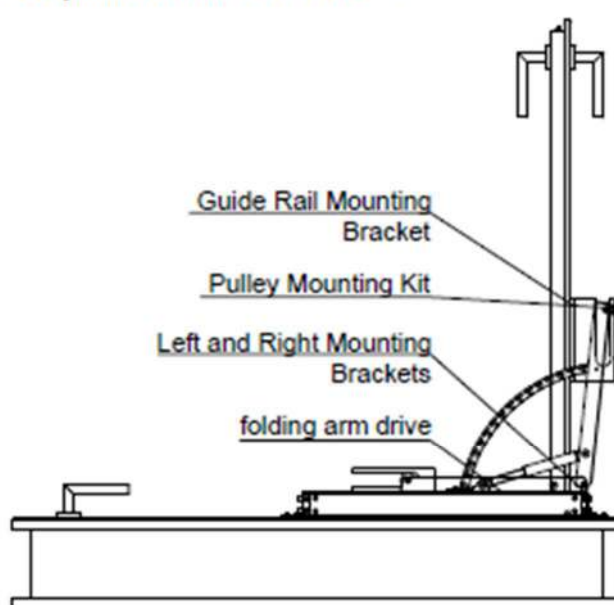


Installation Method Three

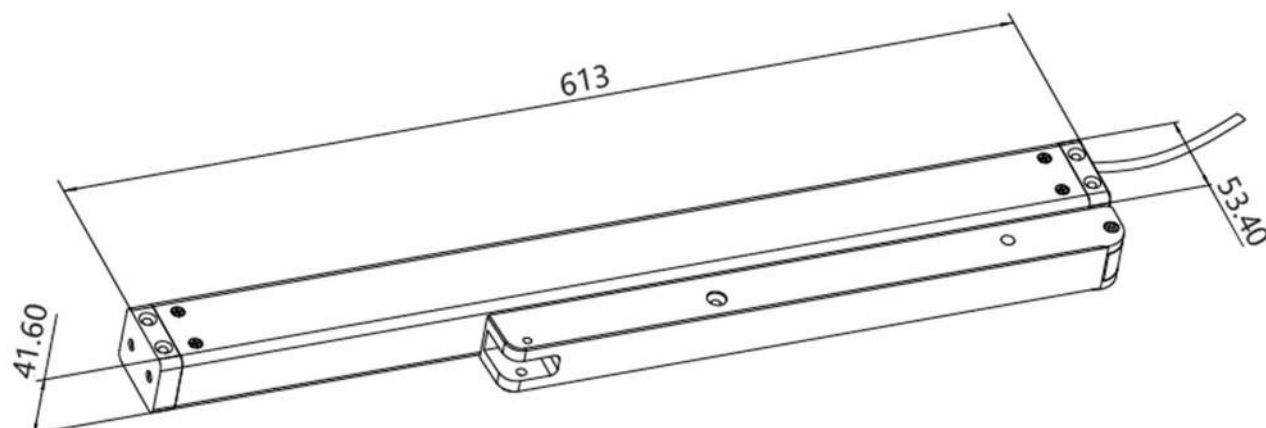


Installation Method Four

Note: This installation method must be used in conjunction with a door closer.

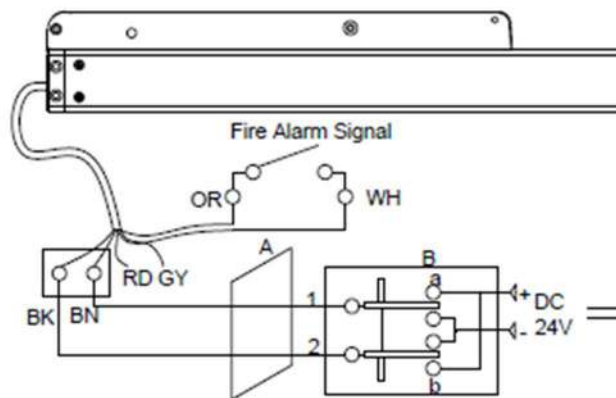


Dimensions



Technical Specifications	
Rated Load	400N
Static Locking Force (Closed Status)	3500N
Maximum Fire Mode Speed	3°/S
Ventilation Speed	Adjustable
Service Life (Under Load)	>10000 cycles
Operating Duty Cycle	30%
Ambient Temperature	- 15°C to + 70°C
Ambient Humidity	≤90%, non-condensing
Protection Rating	IP 32
Synchronization/Linkage Units	9units
Compatible Multi-Point Lock Models	EL800 EL600
Additional Functions	Adjustable obstruction detection with rebound; Adjustable multiple re-close on obstruction
Rated Voltage	24Vdc +25%/-15%
Rated Current	1.5A
Rated Power	36W

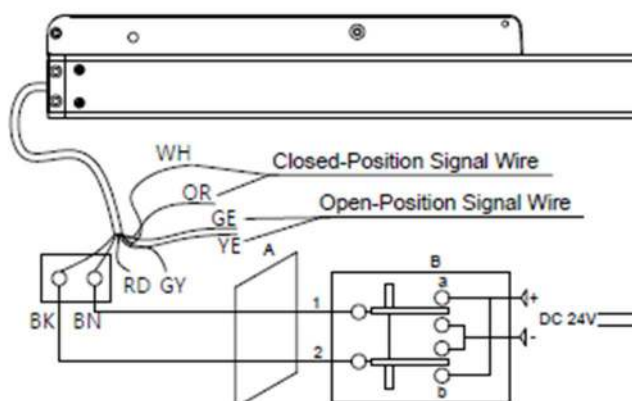
Folding Arm Drive with Fire Mode for Standalone Use



Warning: Never connect the fire alarm signal wires to the 24V power supply, as this will damage the control board and void the product warranty.

Wiring Instructions: The ENCO-AD4/90DE chain folding arm drive with fire mode uses a 6-wire system. Connect the actuator's original brown and black power wires to either a power extension cable or directly to the control panel terminals. Door operation, opening or closing, is controlled by reversing the current direction. The orange and white wires are dry-contact fire alarm signal inputs; when a fire signal is received, the folding arm drive will prioritize fire mode operation. (The red and gray signal wires are used for programming only and require no connection in standalone mode.)

Non-Addressable Folding Arm Drive with Open/Close Status Feedback

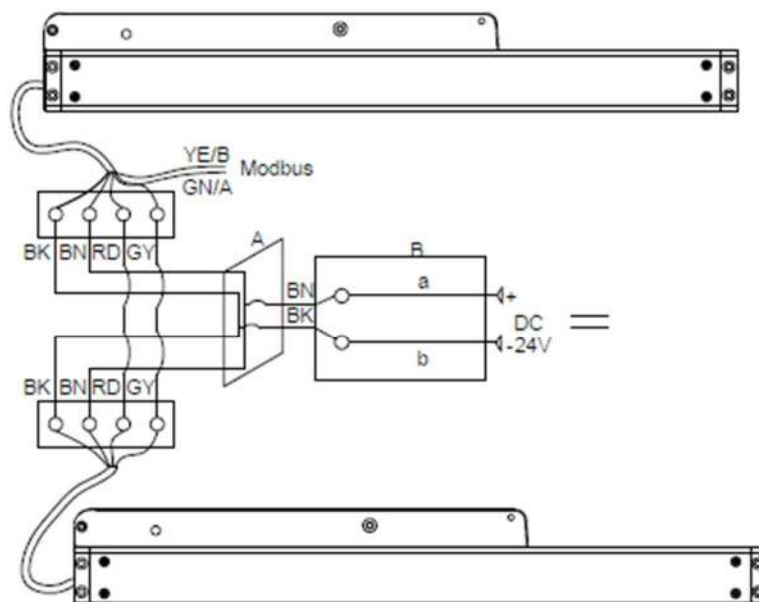


Wiring Instructions: The ENCO-AD4/90DE chain non-addressable folding arm drive with open/close status feedback uses a 8-wire system. Connect the actuator's original brown and black power wires to either a power extension cable or directly to the control panel terminals. Door operation, opening or closing, is controlled by reversing the current direction. The closed-position signal is carried by the orange and white wires, while the open-position signal is carried by the yellow and green wires. (The red and gray signal wires are used for programming only and require no connection in standalone mode.)



The folding arm drive's supply voltage must be maintained within 24V DC +25%/-15%. If the voltage is outside this range, it may not operate properly.

Addressable Folding Arm Drive



Wiring Instructions: The Master Unit of the ENCO-S1500 addressable chain folding arm drive uses a 6-wire system and remains powered on. The unit communicates via the green (A) and yellow (B) wires with a network control panel, using Modbus protocol to operate door opening and closing. For synchronization, connect the signal wires (red-to-red, gray-to-gray) between folding arm drives.

Safety instructions:

Carefully read all safety warnings, instructions, illustrations, and technical specifications provided with this product. Failure to follow all operating instructions below may result in electric shock, fire, and serious personal injury. Retain all warnings and instructions for future reference.

Intended Use

- Designed to open and close windows and ventilation louvers on building façades and roofs.
- Operating Voltage: 24V DC (-15%/+25%).
- Suitable for smoke ventilation and daily comfort ventilation.
- For indoor installation only.

Supply Scope

- Actuator Unit.
- Different bracket components are available as optional accessories to suit specific window types.

Personnel Qualification Requirements

All installation, wiring, commissioning, and maintenance work involving window actuators must be performed by trained and qualified personnel. Untrained staff are strictly forbidden from any part of operations.

Pre-Installation and Equipment Selection

- Power on the window opener to check for any possible damage during transportation.
- Verify that the selected model's load capacity accounts for the actual window weight and wind pressure, ensuring it meets all operational requirements.
- Inspect the structural strength of the window frame and hinges to confirm they can withstand the operating stresses.
- Always use genuine mounting brackets and fasteners. For aluminum window frames, rivets or through-bolts are recommended, self-tapping screws should be avoided.

Electrical safety requirements

- Power supply for the actuator must maintain a stable operating voltage at 24V DC (-15%/+25%). Voltage fluctuations beyond this range may cause equipment malfunction or damage to the control board.

- Use adequately sized cables according the technical standard to minimize voltage drop.
- The control unit should feature an automatic power-off function when the actuator reaches its fully open position, ensuring power is cut off at the end of stroke.
- Always disconnect main power supply before performing any cleaning, maintenance, or troubleshooting.

Safety Protection for Installation

- For windows installed at a height below 2.5 meters, reliable anti-pinch guards must be provided. In public areas, an additional infrared safety sensor should be installed. For bottom-hung windows, safety ropes and anti-fall devices are required.
- All automatic windows must display a clear "Risk of Pinching" warning label in a visible location.
- Keep the operating range of the window completely clear of obstacles. Manual control switches must be placed where the window's movement can be directly observed.

Maintenance and Cleaning

- All maintenance must be performed with the equipment fully powered off.
- A routine inspection of power cables and running tracks should be conducted at least once a year. Immediately discontinue use if abnormalities are detected; repairs must be performed exclusively by AF-certified technicians using genuine parts. Unauthorized disassembly is strictly prohibited.
 - Use a dry, soft cloth to remove dust or debris from the surface. Do not use any detergents or solvents for cleaning.