# Window Actuator specification

**Actuators featuring ‘MotorLink’ Technology must be used throughout the project**

Programmable 24v DC window actuators with ‘MotorLink’ technology and electronic end-stop must be used throughout the project. The actuator must have a reverse function to prolong the life of the weather seal and must have the ability to be programmable for adjustment of stroke, force and speed of operation.

The MotorLink actuators **must be used in conjunction with intelligent MotorLink control panels for** the control system to be able to benefit from the following important functionality:

# Networkable Controllers

# Controllers will be BacNet/KNX/ModBus enabled to reduce field wiring and to allow intelligent and direct read and write communication to actuator groups via the controllers and from the control head end or BMS.

# MotorLink enabled % Position Commands and Actuator Feedback

The actuator and controller combination must allow the control system to write accurate percentage position commands to multiple and independent actuator groups and provide two-way communication between the actuator and control panel to enable precise position control and feedback to the control software, as well as for status and security indication for open windows.

# Three speed operation

The actuator and controller combination must enable three speeds of operation according to function. This helps to ensure slow operating speed and minimal noise during automated functions for barely audible background automation, and higher speeds when operated via override or for safety functions (e.g., Rain) to more quickly and audibly react for user convenience and to protect the building.

* **Pressure Safety Function**

The MotorLink actuators in conjunction with MotorLink control panels should have the possibility for enhanced pressure safety function. This enables the actuators where indicated, to be setup to have more sensitive detection of increases in load during the normal operating cycle, and to stop and reverse the actuator to help reduce risk of damage to the window system or injury to users. It is still important to fully assess the level of risk and degree of protection that can be achieved and WindowMaster can be engaged to discuss the possibilities. Residual risks vary according to window arrangement and actuator type, and therefore this should be fully understood and deemed to be acceptable in line with local guidance by the designers and contractors prior to delivery.

# Fault indication

The actuator should be capable of providing feedback to the control system on window status and an early indication of basic faults with actuator operation or wiring.

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