



Modern Controls Corporate Offices — New Castle, DE

Intelliflex I/O-DC:

Shade Control Simplified

IntelliFlex[®]I/O

*Designed with end users in mind, IntelliFlex® I/O DC ensures an effortless and comfortable shade management experience, while **architects, engineers, general contractors, and dealers** benefit from streamlined processes at every stage —from **design and specification** through **purchasing and installation**.*

KEY FEATURES

• Speed Control

- **Low-Speed Automated Adjustments** – During scheduled or sensor-driven operation, shades move at a **slow, deliberate speed** to subtly adapt to changing light conditions. This minimizes distractions, allowing occupants to remain focused while the system optimizes daylight and reduces glare.
- **High-Speed User Inputs** – When users manually adjust shades, the system responds at a **higher speed**, quickly moving to the desired position so the change is felt immediately.
- **Industry Leading Motor Speed Range** – Adjustable from **5 to 28 RPM** in precise **1 RPM increments**, giving unmatched flexibility for fine tuning movement speed to the space and application.

• Acoustically Optimized

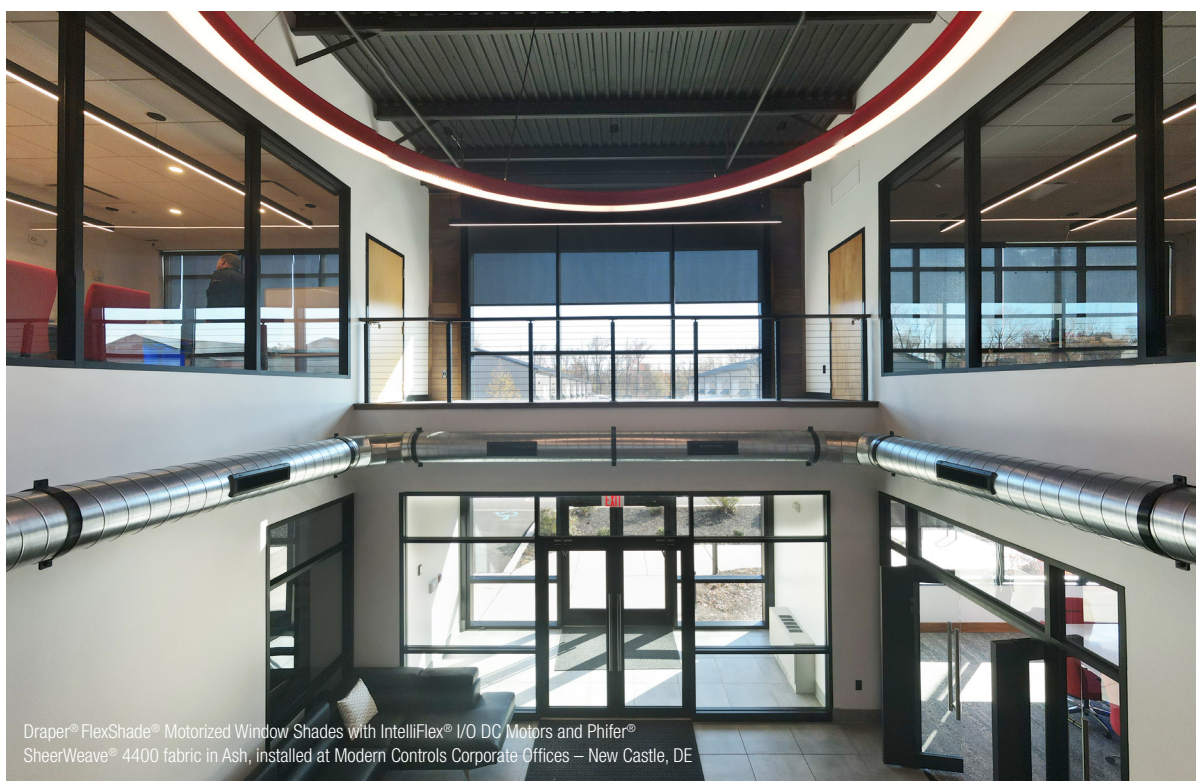
- **Quiet motors** – IntelliFlex I/O DC motors operate at a sound rating of just **36 dB**, making them among the **quietest shade motors on the market**. This ensures smooth, discreet operation in offices, classrooms, healthcare facilities, and other environments where noise control is essential.
- **Low Ambient Impact** – 36 dB is comparable to the sound of a whisper, allowing shades to adjust without drawing attention or disrupting occupants.
- **Frequency-Tuned for Comfort** – At lower RPMs, the system eliminates unwanted high-frequency ringing, delivering a clean, consistent sound profile even during slow, automated movement.

- **Ideal for Sensitive Spaces** – Quiet operation supports focus and comfort in meeting rooms, study areas, and private office spaces.

• Wiring

- **Power and Control in Single Wire** – Reduces wiring labor and material cost, cable footprint, and installation time.
- **Standard, Readily Available Cable** – CAT5e is inexpensive, easy to source, and requires no proprietary connectors.
- **Safe, Low-Voltage Operation** – Minimizes electrical risk.
- **Plug-and-Play Connections** – Pre-terminated or field-terminated CAT5e with RJ-45 simplifies setup and ensures clean, professional results.
- **Long Cable Runs** – Supports distances up to 550 feet with Cat5E cable, enabling flexible equipment placement.
- **No Conduit or Junction Boxes Required** – Reduces material and labor costs while increasing installation speed.





• Networking

- IntelliFlex I/O DC can reside either on an independent shadow network or an existing building network:
- **Shadow Network** – Keeps shade control traffic separate from the building network, enhancing **security, stability, and performance** while avoiding potential conflicts with other systems. Ideal for projects requiring isolated control infrastructure or where IT policies restrict direct integration.
- **Building Network** – Allows the shade control system to communicate directly with Building Management Systems (BMS), lighting controls, AV platforms, and other IP-connected devices. This approach streamlines centralized monitoring, automation, and energy optimization strategies.

• Scalability

- **Start Small, Expand Anytime** – Begin with a single zone or a few shades, then easily add more devices and control points as your needs grow — without replacing existing hardware.

- **Instant Response** – Experience immediate feedback with no latency or delay. No matter the size of the installation or the number of motors in operation, the response time remains consistent and reliable.
- **Consistent Performance at Any Scale** – The same proven technology powers every installation, ensuring reliability whether controlling 5 shades or 5,000.
- **Onsite or Remote Control** – Manage shades at the room, floor, building, or campus level from one intuitive interface.
- **Future-Ready Architecture** – Built to integrate with evolving building technologies, enabling long-term upgrades without costly rewiring.

• Sustainability

- **Low Power Draw**
- **Less building materials** (conduit, J-Box, wiring)

SYSTEM BENEFITS**END USERS**

Comfort, Productivity, and Efficiency: IntelliFlex[®] I/O DC is designed to create better environments for the people who occupy them, while lowering operational costs.

- **Reduced Glare** – Maintains clear views while minimizing eye strain from direct sunlight on work surfaces and screens.
- **Lower Solar Heat Gain** – Helps keep interior temperatures comfortable, reducing reliance on HVAC systems and creating a more stable indoor climate.
- **Optimized Natural Light** – Balances daylight levels to maintain a bright, inviting atmosphere without harsh contrasts.
- **Less Distraction** – Quiet operation and almost **imperceptible automated movements** ensure adjustments happen in the background without interrupting workflow.
- **Lower Energy Consumption** – High-efficiency, low-voltage motors draw less power, reducing overall energy use and operating costs.
- **Personalized Control Options** – Allows occupants to adjust their space as needed for optimal comfort.



*The result is an indoor environment that feels better, looks better, and costs less to operate — supporting **productivity, wellness, and sustainability.***



*With IntelliFlex I/O DC, spaces are **functional, aesthetically refined, and easy to operate** — all without compromising the architect's vision.*

ARCHITECTS

Streamlined Integration. Cleaner Spaces. Happier Clients.

IntelliFlex® I/O DC supports design vision by integrating seamlessly into building systems, reducing visual clutter, and minimizing trade coordination — all while ensuring the space operates quietly and efficiently.

- **Discreet, Quiet Performance** – With a sound rating of just 36 dB, shades operate quietly in the background, maintaining the atmosphere of the space without drawing attention.
- **Fewer switches/keypads on wall** – Integration with lighting, AV, and building management systems allows shade control to be combined with other functions, reducing the number of wall-mounted keypads and preserving clean architectural lines.
- **Future-Proof Communication** – An open integration API ensures IntelliFlex I/O DC can communicate seamlessly with other systems, protecting design intent as technologies evolve.
- **Simplified Coordination** – Low-voltage design and flexible networking minimize the need for extensive scheduling between electrical trades, IT/networking teams, and third-party control integrators, streamlining the construction process.
- **Elimination of Scope Gap** – Shade dealer controls all components.



ENGINEERS

Efficient Design. Simplified Coordination. Lower Costs.

IntelliFlex® I/O DC simplifies system design with cost-effective low-voltage wiring, high motor capacity per circuit, and flexible networking options — all while reducing coordination requirements and maintaining long-term scalability.

- **Cost-Effective Low-Voltage Wiring** – Using standard CAT5e/low-voltage cabling significantly reduces material and labor costs compared to traditional line-voltage installations.
- **High Motor Density Per Circuit** – Power and control up to **24 motors from a single 20A circuit**, reducing the number of dedicated circuits required and optimizing panel space.
- **No Conduit or Junction Boxes** – Eliminate the need for conduit and junction boxes to simplify electrical design, reduce on-site coordination, and increasing installation speed.
- **Flexible Network Options** – Operate on the building's primary network for centralized integration or on an independent “shadow” network for isolated, secure control — providing adaptability for any project requirements.



*With IntelliFlex I/O DC, engineers can deliver simpler designs, fewer points of failure, and cost savings while maintaining **flexibility for future system expansion.***



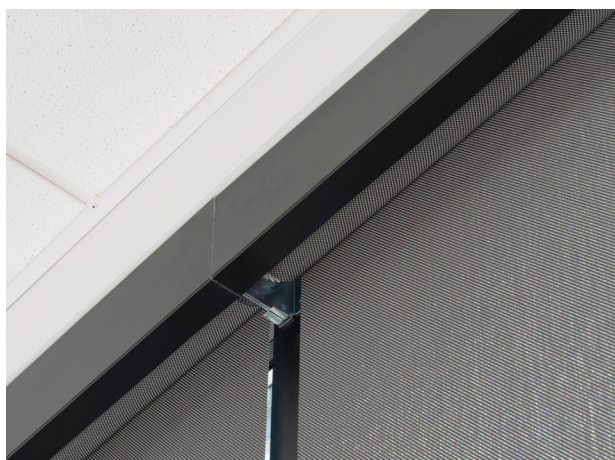
*IntelliFlex® I/O DC allows general contractors to **complete projects faster, more safely, and more profitably** — all while reducing complexity on the jobsite.*

GENERAL CONTRACTORS

Faster Installs. Lower Costs. Safer Sites.

IntelliFlex I/O DC reduces installation time, lowers material and labor costs, and improves on-site safety — helping projects finish faster and more profitably.

- **Reduced Material & Labor Costs** – The low-voltage design eliminates the need for conduit and junction boxes, dramatically lowering both material expenses and installation labor.
- **Simplified Coordination** – Low-voltage wiring can be performed by the shade dealer, reducing the amount of scheduling and coordination required between the shade contractor and electrical trades.

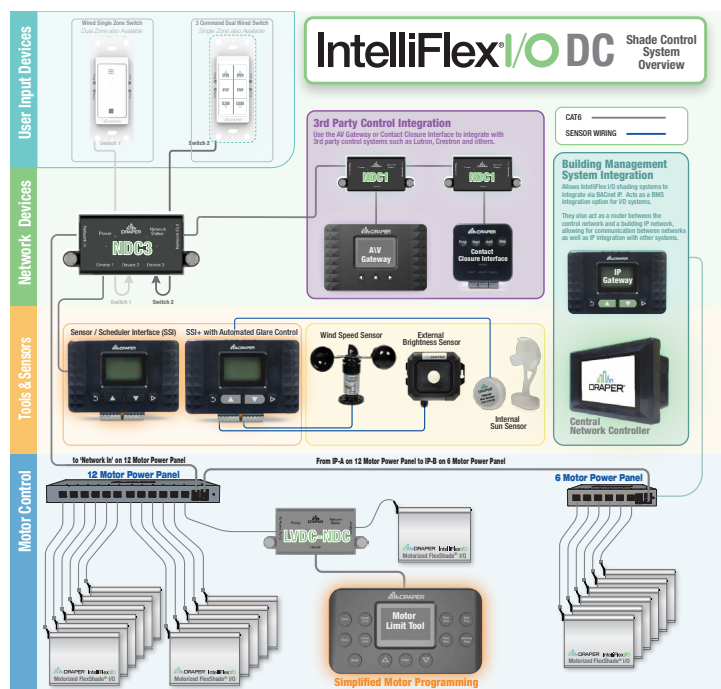


DEALERS

Simplified Installation. Faster Service.

IntelliFlex® I/O DC streamlines installation, programming, and troubleshooting, giving dealers a faster path from sale to completion while reducing service complexity.

- **Simplified Troubleshooting** – All components are centrally located for quick access, making wiring checks straightforward and efficient. Built-in status lights on the power panel provide at-a-glance confirmation of component and network health.
- **Color coded ports** – Enhance safety and simplify trouble-shooting, while reducing installation time and errors.
- **Perform installations directly** – Low-voltage wiring allows dealers to install, reducing reliance on outside trades and keeping more of the project in-house.
- **Streamlined Programming** – The Motor Limit Tool enables quick and precise setup, including limit setting, group creation, and assigning motors to switches or third-party overrides.
- **Fewer Components to Manage** – Integration hardware, including the IP Gateway, is built directly into the power panel, reducing the number of devices, simplifying logistics, and lowering potential points of failure.
- **Revenue Opportunity** – Wiring.



*Faster, easier, and more profitable installation and service process with IntelliFlex I/O DC — while delivering a **high-performance system** to customers.*



For more details on IntelliFlex® I/O intelligent motors, visit draperinc.com/windowshades/intelliflexio



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Creating **partnerships**, designing and manufacturing **innovative products** with **integrity**, as we have since 1902.