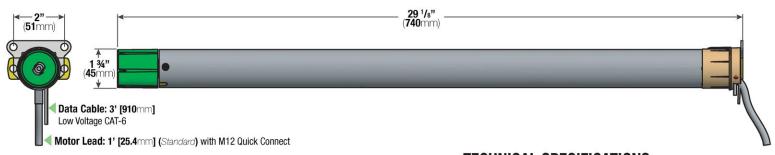


# IntelliFlex\*/O by MIA-DRAPER\* D45AE 6Nm 120VAC Motor & D45AE 15Nm 120VAC Motor





# IntelliFlex\*I/O Motor Code Key D45AE 15Nm 120VAC MOTOR DIAMETER: 35mm / 45mm VOLTAGE TYPE: AC / DC BRAKE TYPE: Electronic / Mechanical TORQUE: 4Nm / 6Nm / 10Nm / 15Nm SUPPLY VOLTAGE: 24VDC / 120VAC / 220VAC

#### **USED WITH**

**Draper Motorized FlexShades®** 

#### **ROLLER DIAMETERS AVAILABLE:**

2" (51mm) Aluminum

2" (51mm) Steel

2 1/8" (54mm) Steel

3" (76mm) Steel

3 1/8" (79mm) Steel

#### **OPERATED BY**

I/O WALL SWITCH (C112.161 & C112.162) CONTACT CLOSURE (C156.273)

RS 232/485

(Requires AV Gateway - C156.269)

**RF REMOTE (C156.270)** 

(Requires Wireless Network Gateway - C156.268)

IR EYE (121227 & 121228) (Requires AV Gateway - C156.269)

#### **SET LIMITS USING:**

MOTOR LIMIT TOOL (C202.030)
SINGLE ZONE WIRED WALL SWITCH (C112.161)
DUAL ZONE WIRED WALL SWITCH (C112.162)

#### **TECHNICAL SPECIFICATIONS**

Motor:	D45AE-28/6	D45AE-28/15
Part Number:	C047.300	C047.303
Torque (Nm):	6 Nm	15 Nm
Voltage Supply:	120V A	C/60Hz
Rated Current:	1.0 /	Amps
Speed:	28F	RPM
Index Protection:	IP 44 (Interior Use)	
Thermal Protection:	4 Minutes	
Insulation Class:	Class 1 for 120V AC	
Sound Level:	42dBA	
Limit Switch Type:	Electronic	
Wiring:	Parallel Wiring allowed in accordance with NEC and local electrical codes	
High Voltage Motor Leads:	6' (182cm) High Voltage	
High Voltage Plug Type:	M-12 Quick Connect	
Low Voltage Lines:	3' (91cm) Low Voltage CAT 6	
UL Certifications:	UL325 & CSA C22.2 No. 247	



The Network Device Connector (NDC) is used to connect IntelliFlex I/O devices into a network. It distributes both power and communications between devices.

#### **Features**

- LED Indicators indicate network status
- Built-In terminating resistor
- Network bypass switch for troubleshooting



# Technical Specifications - Network Device Connector Material: ABS plastic

Operating Temp: Ambient

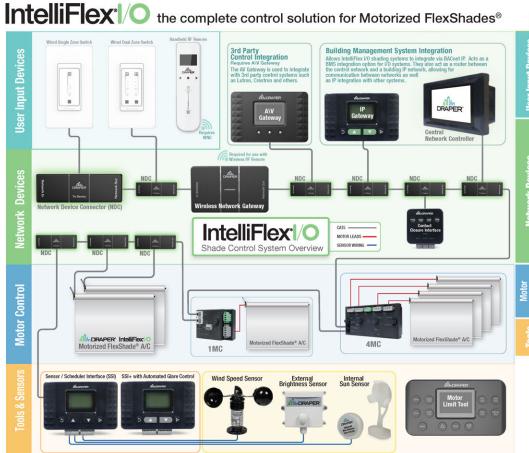
Dimensions: 3 3/8" x 2" x 1 1/16" 90 x 31 x 27mm

Mounting: Mounting Hardware Provided

Shipping Weight: 1 lb. 0.45 kg

Approved for use in plenum spaces

Indoor Use Only



Int	telliFlexI/O Compatible Components	Part Number
Ses	Single Zone Wired Wall Switch (\$1)	C112.161
Jser Input Devices	Dual Zone Wired Wall Switch (S2)	C112.162
直	Handheld RF Remote (RFR)	C156.270
ia ia	IR Transmitter and Receiver (IRT/R)	121227
š	IR Transmitter (IRT)	121228
	Network Device Connector (NDC)	C156.267
	Wireless Network Gateway (WNG)	C156.268
ces	A\V Gateway (AVG)	C156.269
Network Devices	Sensor/Scheduler Interface (SSI)	C156.272
Vork	SSI w/ Automated glare control (SSI+)	C156.304
Net	Contact Closure Interface (CCI)	C156.273
	Central Network Controller (CNC)	C156.271
	IP Gateway (IPG)	C156.305
	1 Motor Controller w/enclosure (1MC)	C156.285SA
Motor	1 Motor Controller (1MC)	C156.285
_ 0	4 Motor Controller w/enclosure (4MC)	C156.286SA
	Motor Limit Tool (MLT)	C202.030
Ž	IntelliFlex I/O Installation Kit (I0-Kit)	C504.206SA







Overview **C202.030** 

The Motor Limit Tool is used to program the limits, operating direction and preset stops for individual or networks of Draper intelligent motors.

#### **Features**

- Can be connected to an individual motor or to the network to program all motors at once.
- LCD display gives feedback to the user to make the process easier.
- Motor limits and stops can be copied and pasted to other motors in the network.
- Allows the user to factory reset the network back to the default state.



#### Technical Specifications - Motor Limit Tool

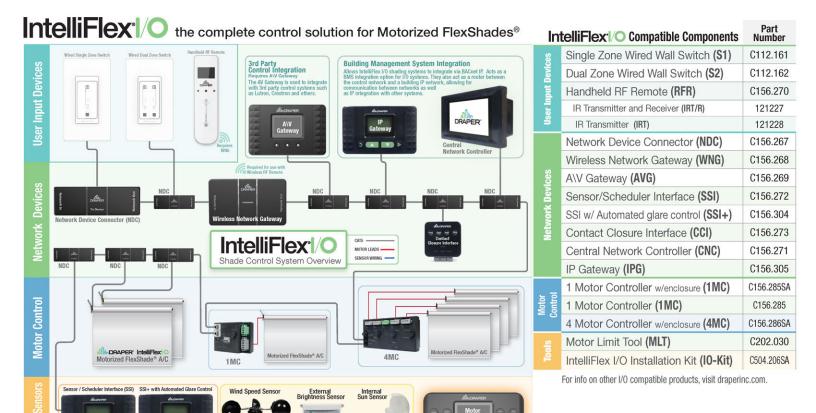
Material: ABS plastic

Operating Temp: Ambient

Dimensions: 5 1/8" x 2 7/8" x 1 1/8" 131 x 73 x 28mm

Shipping Weight: 1 lb. 0.45 kg

Indoor Use Only





Overview C112.161

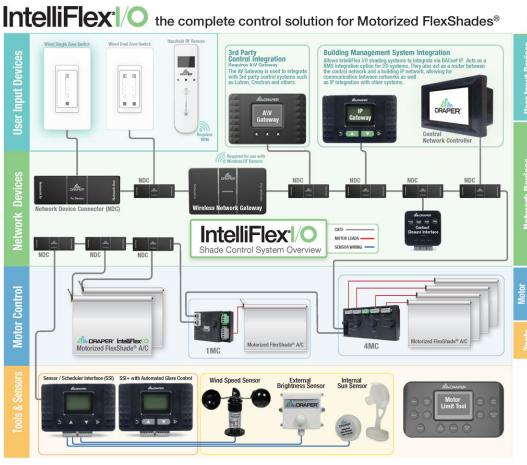
The IntelliFlex I/O Single Zone Wall Switch is a smart user input device that can be customized to operate roller shades, venetian blinds, or send a signal to a third-party Building Management system via the IntelliFlex I/O network. The I/O switch can be programmed to control a single system or zone, moving it to any position with a single touch. Swipe gestures are also recognized and quickly move the shades to the fully open or closed positions. Power for the switch is provided through the IntelliFlex I/O network using a single Ethernet cable for power and communication. A zone can be configured to control any number of shades on an IntelliFlex I/O network using the onboard programming buttons, without rewiring or the use of external configuration devices. Integrated LEDs provide users real time system status, allowing them to know when the switch is pressed, motors are in operation, or when the switch is rendered inactive due to other system priorities.

#### **Features**

- · Control any number of motors in an IntelliFlex I/O network.
- Can be used with any number of intermediate stops, or no stops at all.
- Integrated LEDs provide system status to users.
- Standard Decora size and fits into any standard single gang box.



# Technical Specifications - Single Zone Wired Wall Switch Input Power: 24V DC Material: ABS plastic Operating Temp: Ambient Dimensions: 4 1/8" x 1" x 7/8" 105 x 45 x 22mm Mounting: Single Gang Shipping Weight: 2lb. 0.9 kg Indoor Use Only NDC Required (included)



Int	telliFlexI/O Compatible Components	Part Number
se	Single Zone Wired Wall Switch (\$1)	C112.161
Devic	Dual Zone Wired Wall Switch (S2)	C112.162
	Handheld RF Remote (RFR)	C156.270
in in	IR Transmitter and Receiver (IRT/R)	121227
Š	IR Transmitter (IRT)	121228
	Network Device Connector (NDC)	C156.267
	Wireless Network Gateway (WNG)	C156.268
Devices	A\V Gateway (AVG)	C156.269
Dev	Sensor/Scheduler Interface (SSI)	C156.272
etwork	SSI w/ Automated glare control (SSI+)	C156.304
Net	Contact Closure Interface (CCI)	C156.273
	Central Network Controller (CNC)	C156.271
	IP Gateway (IPG)	C156.305
_	1 Motor Controller w/enclosure (1MC)	C156.285SA
Motor	1 Motor Controller (1MC)	C156.285
_ 3	4 Motor Controller w/enclosure (4MC)	C156.286SA
	Motor Limit Tool (MLT)	C202.030
ě	IntelliFlex I/O Installation Kit (I0-Kit)	C504.206SA





Overview C112.162

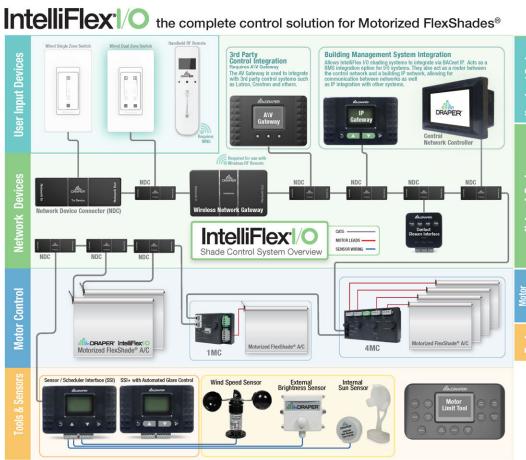
The IntelliFlex I/O Dual Zone Wall Switch is a smart user input device that can be customized to operate roller shades, venetian blinds, or send a signal to a third-party Building Management system via the IntelliFlex I/O network. The I/O switch can be programmed to control two individual systems or zones, moving them to any position with a single touch. Swipe gestures are also recognized and quickly move the shades to the fully open or closed positions. Power for the switch is provided through the IntelliFlex I/O network using a single Ethernet cable for power and communication. Each zone can be configured to control any number of shades on an IntelliFlex I/O network using the onboard programming buttons, without rewiring or the use of external configuration devices. Integrated LEDs provide users real time system status, allowing them to know when the switch is pressed, motors are in operation, or when the switch is rendered inactive due to other system priorities.

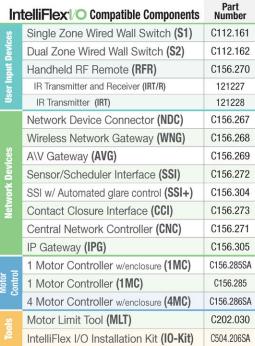
#### **Features**

- · Two independent control zones
- · Control any number of motors in an IntelliFlex I/O network.
- Can be used with any number of intermediate stops, or no stops at all.
- Integrated LEDs provide system status to users.
- Standard Decora size and fits into any standard single gang box.



Technical Specific	ations -	Dual Zone V	Vired Wall Switch
Input Power:	24V DC		
Material:	ABS pla	stic	
Operating Temp:	Ambient		
Dimensions:	4 <sup>1/</sup> 8" x 1	″ χ 7/8″	105 x 45 x 22mm
Mounting:	Single G	ang	
Shipping Weight:	2lb.		0.9 kg
	Indoor U	lse Only	
	NDC Red	quired (inclu	ıded)









The AV Gateway is used to integrate with 3rd party control systems such as Lutron, Crestron and others.

#### Features

- Supports RS-232 and RS-485
- 6 Contact closure inputs
- Low voltage trigger
- IR receiver input
- · LCD display allows for commissioning of serial groups



#### Technical Specifications - A\V Gateway

Material: ABS plastic

Operating Temp: Ambient

Dimensions: 4 7/8" x 3" x 1" 124 x 83 x 32m

Mounting: Mounting Hardware Provided

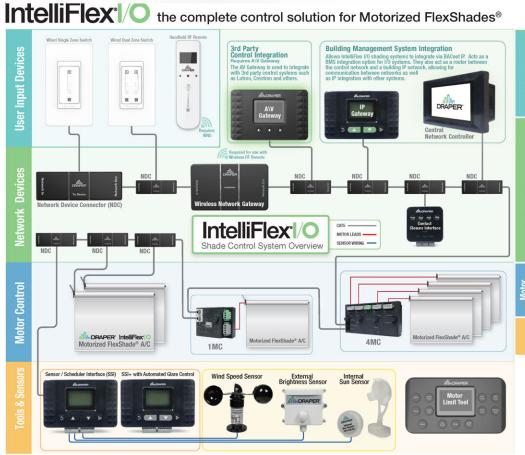
Shipping Weight: 1 lb. 0.45 kg

Approved for use in plenum spaces

Indoor Use Only

NDC Required (included)

Optional Power Supply: (C103.152)



telliFlex1/O Compatible Components	Part Number
Single Zone Wired Wall Switch (\$1)	C112.161
Dual Zone Wired Wall Switch (\$2)	C112.162
Handheld RF Remote (RFR)	C156.270
IR Transmitter and Receiver (IRT/R)	121227
IR Transmitter (IRT)	121228
Network Device Connector (NDC)	C156.267
Wireless Network Gateway (WNG)	C156.268
A\V Gateway (AVG)	C156.269
Sensor/Scheduler Interface (SSI)	C156.272
SSI w/ Automated glare control (SSI+)	C156.304
Contact Closure Interface (CCI)	C156.273
Central Network Controller (CNC)	C156.271
IP Gateway (IPG)	C156.305
1 Motor Controller w/enclosure (1MC)	C156.285SA
1 Motor Controller (1MC)	C156.285
4 Motor Controller w/enclosure (4MC)	C156.286SA
Motor Limit Tool (MLT)	C202.030
IntelliFlex I/O Installation Kit (I0-Kit)	C504.206SA
	Dual Zone Wired Wall Switch (S2) Handheld RF Remote (RFR) IR Transmitter and Receiver (IRT/R) IR Transmitter (IRT) Network Device Connector (NDC) Wireless Network Gateway (WNG) A\V Gateway (AVG) Sensor/Scheduler Interface (SSI) SSI w/ Automated glare control (SSI+) Contact Closure Interface (CCI) Central Network Controller (CNC) IP Gateway (IPG) 1 Motor Controller w/enclosure (1MC) 4 Motor Controller w/enclosure (4MC) Motor Limit Tool (MLT)







The IntelliFlex I/O IP Gateway (IPG) provides a simple solution for connecting a network of IntelliFlex I/O devices to an IP network. With a built in two port network switch, each IPG can be connected directly to a building network, or daisy chained to other IPGs to form a stand-alone network. When networked together, the IPGs provide access to all connected IntelliFlex I/O devices allowing for any number of networks to be joined together for medium or large-scale projects. Configuration is all done using the built-in buttons and display, no computer connection required.

#### **Features**

- Allows any number of IntelliFlex I/O networks to be connected together
- Built-in 2 port network switch provides flexible installation options
- Buttons and screen on-board for easy configuration



#### Technical Specifications - IP Gateway

Material: ABS plastic

Operating Temp: Ambient

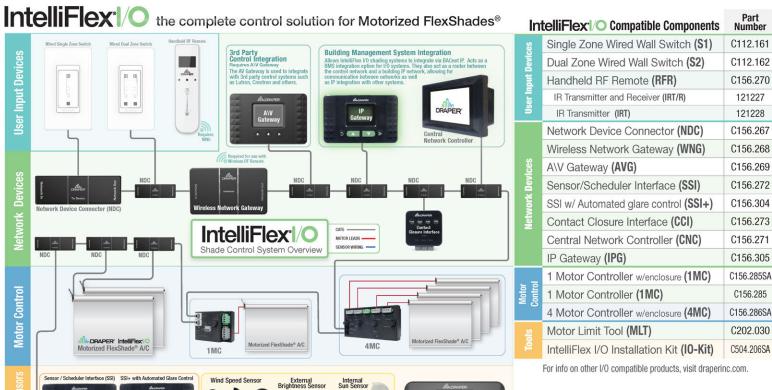
Dimensions: 4 7/8 x 3" x 1" 124 x 83 x 32mm

Mounting: Mounting Hardware Provided

Shipping Weight: 1 lb. 0.45 kg

Indoor Use Only

NDC Required (included)







The IntelliFlex I/O Sensor / Scheduler Interface allows up to 4 sensors to be added to an IntelliFlex I/O network.

Includes built-in support for brightness, wind and precipitation sensors as well as pyranometers.

Also provided support for up to 8 scheduled override events. Configuration is done using on-board buttons and LCD display.

#### **Features**

- Supports 0-10V, 4-20mA, photodiode and pulse sensors
- Simple configuration using built-in buttons and LCD display
- · Scheduled events can be configured to run on any combination of days of the week
- External power input for sensors provides support for any sensor power requirements



#### Technical Specifications - Sensor/Scheduler Interface

Material: ABS plastic

Operating Temp: Ambient

Dimensions: 4 <sup>7</sup>/<sub>8</sub>" x 3½" x 1½" 124 x 83 x 32m

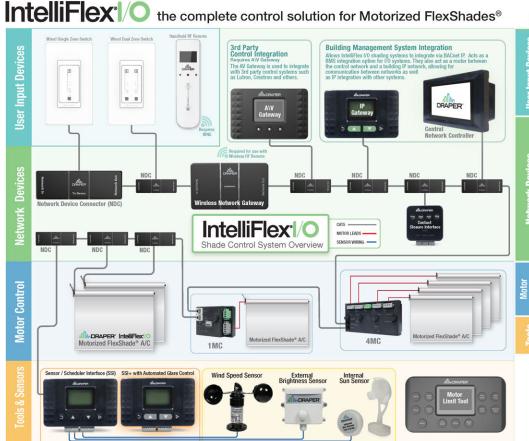
Mounting: Mounting Hardware Provided

Shipping Weight: 1 lb. 0.45 kg

Indoor Use Only

NDC Required (included)

Optional Power Supply: (C103.154)



Int	telliFlex://O Compatible Components	Part Number
Ses	Single Zone Wired Wall Switch (\$1)	C112.161
Jser Input Devices	Dual Zone Wired Wall Switch (\$2)	C112.162
The last	Handheld RF Remote (RFR)	C156.270
in in	IR Transmitter and Receiver (IRT/R)	121227
š	IR Transmitter (IRT)	121228
	Network Device Connector (NDC)	C156.267
	Wireless Network Gateway (WNG)	C156.268
ces	A\V Gateway (AVG)	C156.269
Vetwork Devices	Sensor/Scheduler Interface (SSI)	C156.272
York	SSI w/ Automated glare control (SSI+)	C156.304
Net	Contact Closure Interface (CCI)	C156.273
	Central Network Controller (CNC)	C156.271
	IP Gateway (IPG)	C156.305
_	1 Motor Controller w/enclosure (1MC)	C156.285SA
Motor	1 Motor Controller (1MC)	C156.285
_ 0	4 Motor Controller w/enclosure (4MC)	C156.286SA
	Motor Limit Tool (MLT)	C202.030
	IntelliFlex I/O Installation Kit (IO-Kit)	C504.206SA

#### SSI+ - Sensor/Scheduler Interface with Automated Glare Control

Overview C156.304

The IntelliFlex I/O Sensor / Scheduler Interface with automated glare control allows up to 4 sensors to be added to an IntelliFlex I/O network. Includes built-in support for brightness, wind and precipitation sensors as well as pyranometers. Also provided support for up to 8 scheduled override events. Configuration is done using on-board buttons and LCD display.

#### **Features**

- Controls up to 8 automated glare control zones
- Supports 0-10V, 4-20mA, photodiode and pulse sensors
- Simple configuration using built-in buttons and LCD display
- Scheduled events can be configured to run on any combination of days of the week
- External power input for sensors provides support for any sensor power requirements



Material: ABS plastic

Operating Temp: Ambient

Dimensions: 4 7/8" x 3" x 1" 124 x 83 x 32m

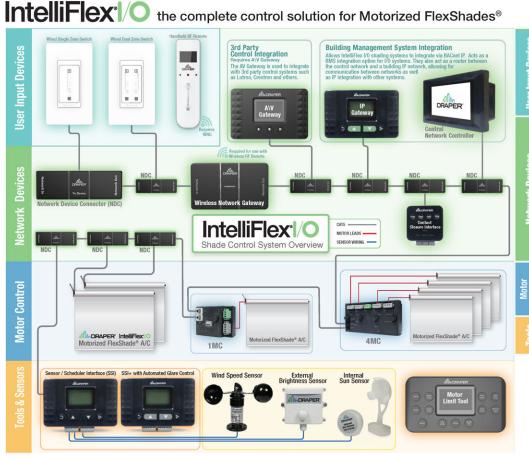
Mounting: Mounting Hardware Provided

Shipping Weight: 1 lb. 0.45 kg

Indoor Use Only

NDC Required (included)

Optional Power Supply: (C103.154)



In	telliFlexI/O Compatible Components	Part Number
ses	Single Zone Wired Wall Switch (\$1)	C112.161
Devices	Dual Zone Wired Wall Switch (\$2)	C112.162
T T	Handheld RF Remote (RFR)	C156.270
E E	IR Transmitter and Receiver (IRT/R)	121227
š	IR Transmitter (IRT)	121228
	Network Device Connector (NDC)	C156.267
	Wireless Network Gateway (WNG)	C156.268
ices	A\V Gateway (AVG)	C156.269
Dev	Sensor/Scheduler Interface (SSI)	C156.272
vork	SSI w/ Automated glare control (SSI+)	C156.304
Netv	Contact Closure Interface (CCI)	C156.273
	Central Network Controller (CNC)	C156.271
	IP Gateway (IPG)	C156.305
_	1 Motor Controller w/enclosure (1MC)	C156.285SA
Motor Contro	1 Motor Controller (1MC)	C156.285
	4 Motor Controller w/enclosure (4MC)	C156.286SA
	Motor Limit Tool (MLT)	C202.030
	IntelliFlex I/O Installation Kit (I0-Kit)	C504.206SA



C156.271 Overview

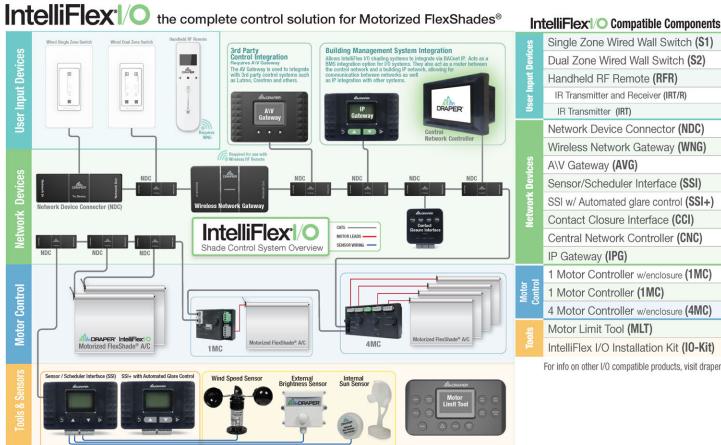
The Central Network Controller is a touchscreen device that adds advanced functionality to a network. It also acts as a router between the control network and a building IP network, allowing for communication between networks as well as IP integration with other systems. Graphical user interfaces are provided on the local touchscreen as well as remotely accessible web interfaces.

#### **Features**

- Adds automated glare control and scheduling functionality to a network
- **BACnet/IP** integration
- 7" (18cm) touchscreen interface
- Interface to monitor and override network devices
- Logging of shade movements, sensor readings and user overrides



#### Technical Specifications - Central Network Controller Input Power: Micro USB (included) Operating Temp: Ambient Dimensions: 9 7/8" x 53/4" x 2" 251 x 146 x 51mm Rough Cutout: 8" x 5" x 134" 203 x 127 x 44mm Mounting: Mounting Hardware Provided Shipping Weight: 5 lbs. 2.26 kg Indoor Use Only NDC Required (included)



Part Number Single Zone Wired Wall Switch (\$1) C112.161 Dual Zone Wired Wall Switch (\$2) C112.162 Handheld RF Remote (RFR) C156.270 IR Transmitter and Receiver (IRT/R) 121227 121228 Network Device Connector (NDC) C156.267 Wireless Network Gateway (WNG) C156.268 C156.269 Sensor/Scheduler Interface (SSI) C156.272 SSI w/ Automated glare control (SSI+) C156.304 Contact Closure Interface (CCI) C156.273 Central Network Controller (CNC) C156.271 C156.305 1 Motor Controller w/enclosure (1MC) C156.285SA 1 Motor Controller (1MC) C156.285 4 Motor Controller w/enclosure (4MC) C156.286SA C202.030 IntelliFlex I/O Installation Kit (IO-Kit) C504.206SA



# IntelliFlex\*/O External Brightness Sensor



#### Part # C156.279

#### Overview

The External Brightness Sensor uses a silicon-blue photovoltaic detector to provide a wide range of brightness measurement, ideal for detecting cloudy or sunny conditions. Designed to be used with the IntelliFlex I/O Sensor/ Schedule Interface (PN C156.272) to provide direct control of shades or as an override in a fully automatic system. The waterproof design helps to ensure reliability as an essential part of your IntelliFlex I/O solution.

#### **Features**

- Wide Measuring Range
- Waterproof
- Long Transmission Range and Sensitivity
- Highly Reliable

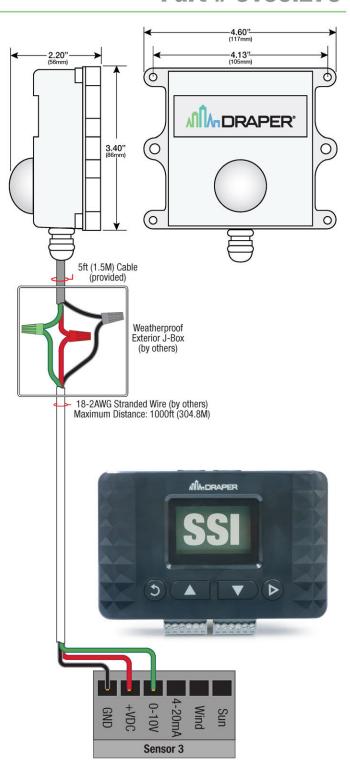
To be used with Sensor/Scheduler Interface (Part# C156.272) or the Sensor/Scheduler Interface + (Part#C156.304).

#### **TECHNICAL SPECIFICATIONS**

Material:	ABS Plastic	
Dimensions:	4.6" x 3.4" x 2.2"	117 x 86 x 58MM
Operating Temp:	Ambient	
<b>Shipping Weight:</b>	1 lb.	0.45 kg
Measurement Range:	0-150,000 Lux	
Accuracy:	± 5%	

#### Installation

The External Brightness Sensor is to be mounted directly onto a horizontal or vertical surface using the provided screws. Alternately, the sensor can be pole mounted on a mast (by others) with 5ft (1.5M) wiring whip routed through the interior, or along the exterior of the mast. Wiring whip must terminate in a typical J-box. If the J-box is mounted to the exterior of the building it must be weatherproof.





C156.285SA Overview

The 1MC is a single motor controller that can be used with motorized roller shades, Venetian blinds and louver systems.

The 1MC can be used stand alone or part of a network. Even when networked, each 1MC can be independently operated and can be configured to respond to wall switches, RF remotes and signals from 3rd party systems. An on-board contact closure interface can be used as a local control for both networked and stand alone operation.

#### Features

- Robust RS-485 network with built in network termination
- On-board buttons for testing and configuring motors
- Pluggable terminal blocks for easier wiring
- On-board contact closure terminal connection for local control



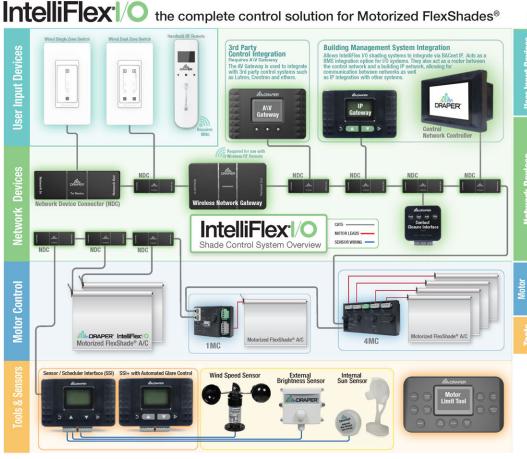
#### Single Motor Controller Input Power: 110-230VAC @ 50 / 60Hz Output Power: Maximum 6A @ Input Power Material: ABS plastic Operating Temp: 32 - 140 ° F 0 - 60° C Dimensions: 23/4" x 31/2" x 2 1/8" 70 x 90 x 54mm Enclosure: 4" x 4" X 4" 102 x 102 x 102mm Shipping Weight: 1 lb. 0.45 kg

Indoor Use Only

RS-485

Network Bus:

**Technical Specifications -**



In	telliFlex1/O Compatible Components	Part Number
ses	Single Zone Wired Wall Switch (\$1)	C112.161
Devices	Dual Zone Wired Wall Switch (\$2)	C112.162
Ī	Handheld RF Remote (RFR)	C156.270
Jser Input	IR Transmitter and Receiver (IRT/R)	121227
š	IR Transmitter (IRT)	121228
	Network Device Connector (NDC)	C156.267
	Wireless Network Gateway (WNG)	C156.268
seo	A\V Gateway (AVG)	C156.269
Dev	Sensor/Scheduler Interface (SSI)	C156.272
Vork	SSI w/ Automated glare control (SSI+)	C156.304
Net	Contact Closure Interface (CCI)	C156.273
Central Network Controller (CNC)		C156.271
	IP Gateway (IPG)	C156.305
_	1 Motor Controller w/enclosure (1MC)	C156.285SA
Motor Contro	1 Motor Controller (1MC)	C156.285
	4 Motor Controller w/enclosure (4MC)	C156.286SA
	Motor Limit Tool (MLT)	C202.030
	IntelliFlex I/O Installation Kit (I0-Kit)	C504.206SA







Overview C156.286SA

The 4MC is a 4 motor controller that can be used with motorized roller shades, Venetian blinds and louver systems.

Each port is independently operated and can be configured to respond to wall switches, RF remotes and signals from 3rd party systems.

#### **Features**

- Robust RS-485 network with built in network termination
- Pluggable terminal blocks for easier wiring



#### Technical Specifications - 4 Motor Controller

Input Power: 110-230VAC @ 50 / 60Hz

Output Power: Maximum 6A @ Input Power

Material: ABS plastic

Operating Temp: 32 - 140 ° F 0 - 60 ° C

Dimensions: 3½" x 7" x 1 ½" 89 x 178 x 48mm

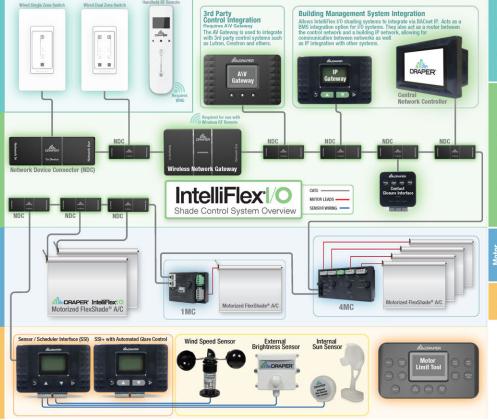
Enclosure: 6" x 4" x 4" 152 x 102 x 102mm

Shipping Weight: 2 lb. 0.9 kg

Network Bus: RS-485

Indoor Use Only

IntelliFlex\*/O the complete control solution for Motorized FlexShades®



In	telliFlexI/O Compatible Components	Part Number
ces	Single Zone Wired Wall Switch (\$1)	C112.161
Devic	Dual Zone Wired Wall Switch (\$2)	C112.162
Ī	Handheld RF Remote (RFR)	C156.270
E E	IR Transmitter and Receiver (IRT/R)	121227
š	IR Transmitter (IRT)	121228
	Network Device Connector (NDC)	C156.267
	Wireless Network Gateway (WNG)	C156.268
ices	A\V Gateway (AVG)	C156.269
Dev	Sensor/Scheduler Interface (SSI)	C156.272
vork	SSI w/ Automated glare control (SSI+)	C156.304
Netv	Contact Closure Interface (CCI)	C156.273
	Central Network Controller (CNC)	C156.271
	IP Gateway (IPG)	C156.305
_	1 Motor Controller w/enclosure (1MC)	C156.285SA
Motor Contro	1 Motor Controller (1MC)	C156.285
	4 Motor Controller w/enclosure (4MC)	C156.286SA
	Motor Limit Tool (MLT)	C202.030
	IntelliFlex I/O Installation Kit (I0-Kit)	C504.206SA

For info on other I/O compatible products, visit draperinc.com.



**Motor Control** 

# Motorized FlexShade® I/O AC



#### Please check all appropriate selections and attach room schedule with verified dimensions.

Motorized Shade Options	Coupled Shades
Fabric Series:	☐ Yes (How Many Fabric Panels?).  Also indicate on room schedule.
Color Name / Number:	□ No
	Select Hardware
Openness Factor:  Please visit <u>Draper Fabric Options</u> for fabric colors and specifications.	□ Brackets Only
	Wall Colling
Select Fabric Orientation	☐ Ceiling☐ ☐ Endcaps Only
Regular Roll (from back of roller)	□ Endcaps Only □ Endcaps w/Fascia
□ Reverse Roll (from front of roller)	□ Surface Headbox (Fascia & Top/Back Cover)
Select Fabric Attachment	Headbox
□ Standard	<ul> <li>Pocket Style Headbox</li> </ul>
<ul> <li>Optional Spline Attachment</li> </ul>	Type "D" Pocket w/Tile Lip (White; not available w/ 3" roller)
Select Slat Style	☐ Custom Headbox ☐ Wall Clip
□ Closed Pocket - 1" (25mm) Elliptical (standard)	□ With Ceiling Tile Lip
□ Open Pocket - 1" (25mm) Elliptical	□ Without Ceiling Tile Lip
□ Small Flat Exposed Hem Bar	□ Closure Panel for Wall Clip, Type "D" Pocket or Custom Headbox
□ Large Flat Exposed Hem Bar	□ 1 ½" (38mm) □ 3" (76mm)
□ Round Exposed Hem Bar	☐ 5" (127mm) (For Wall Clip and Custom Headbox Only)
□ <sup>5</sup> / <sub>8</sub> " (16mm) Tube	<ul><li>Light Gap Reduction Hardware</li></ul>
□ None	□ 'L' Angle □ 'U' Channel
	☐ 'H' Channel
Select IntelliFlex I/O Control Options	□ Channel Liners
Number of Motors:	Select Hardware Finish (does not apply to Type "D" Pocket)
Number of Single Zone Wall Switches (C112.161):	□ Clear Anodized (standard) □ Black
Number of Duel Zone Well Switches (C112 162)	☐ White ☐ Ivory ☐ Custom (Contact Draper)
Number of Dual Zone Wall Switches (C112.162):	Max. Cod. Maximum Maxi
Number of Handheld Remotes (C156.270):	Available Sizes:
A Wireless Network Gateway is required use Remote.	WIDTH: 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14'
Number of A\V Gateways (C156.269):	2' 3'
Number of Contact Closure Interfaces (C156.273):	4' 5'
Number of Contact Closure Interfaces (C100.270).	6'
Number of Extra Network Device Connectors (NDCs):	± 7'
NDCs included with each motor and I/O network component that requires an NDC.	H 7' 8' 9' 9' 9' 9' 9' 9' 9' 9' 9' 9' 9' 9' 9'
Include Low Voltage Network Cables?	10'
□ Yes	- 11'
□ 3' (91cm) (C107.100) How many	12'
G' (182cm) (C107.101) How many	14'
□ 12' (366cm) (C107.102) How many □ 25' (762cm) (C107.103) How many	* Sizes requiring large endcaps/brackets will vary according to fabric.
50' (1524cm) (C107.104) How many	
□ No	Small endcaps/brackets and 2" (51mm) roller are recommended.
Include Commisioning Tools?	Large endcaps/brackets and 3" (76mm) roller may be required.
□ Yes	
Motor Limit Tool (C202.030) (How Many?).	
□ No	
	PROJECT:



PROJECT:

ARCHITECT:

CONTRACTOR:

SUPPLIER:

DATE:

REVISED:

## Motorized FlexShade® I/O AC

#### **Specifications**

INTELLIFLEX I/O 6NM AC MOTOR (C047.300): Drive unit inside roller, 3-wire, instantly reversible, lifetime lubricated. Right hand or left hand operation selectable during programming. Adjustable electronic limit switches, thermal overload protector and electric brake. Operates on 110-120V AC 1 PH 60 HZ current. Draws 1.0 Amps. Sound level ≤ 42 dBA.

MOTOR LIMIT TOOL (C202.030): Used to program the limits, operating direction and preset stops for individual or networks of Draper intelligent motors.

NETWORK DEVICE CONNECTOR (C156.267): Used to connect IntelliFlex I/O devices into a

WIRED WALL SWITCH (SINGLE ZONE - C112.161; DUAL ZONE - C112.162): Intelligent low voltage control device providing in-wall user interface. Communicates directly with intelligent motors. Uses priority based command structure which allows multiple switches to have different levels of authority.

WIRELESS REMOTE (C156.270): Display allows up to 32 channels. Touch control to position shades. Can be used as a simple commissioning tool.

WIRELESS NETWORK GATEWAY (C156.268): Required to use the wireless remote in a wired network.

A\V GATEWAY (C156.269): Used to integrate with 3rd party control systems. Supports RS-232 and RS-485. Contact closure inputs. Low voltage trigger. IR receiver input. LCD display allows for commissioning of serial groups.

CONTACT CLOSURE INTERFACE (C156.273): Used to connect simple switches or other contact closure devices into the network. Up to 6 contacts. Push buttons for commisioning.

#### HARDWARE

ROLLERS: Extruded aluminum or steel. Roller assembly easily removable.

OPTIONAL FABRIC ATTACHMENT: Fabric attached to roller tube with spline fabric attachment method. Allows for removal of fabric panel without removal of roller assembly.

**MOUNTING BRACKETS:** 1018 plated steel stamping. **2 SIZES:**  $1^5k$ " (41mm) and 2 ¼" (57mm). Styles for mounting to wall, ceiling, or jamb. Brackets do not require additional adapters.

ROLLER IDLER ASSEMBLY: Type % injected molded nylon and a zinc-plated cold rolled steel pin. Sliding pin for easy installation and removal of the roller

SLAT: Aluminum, min. 1/8" x 1" (3 x 25mm), encased in heat seamed hem.

ENDCAPS: 1028 steel stamping. 2 SIZES: 31/4" x 33/4" (83x95mm) and 41/2" x 41/2" (114x114mm). Complete with adapter roller bracket. Installs to wall, ceiling, or jamb. Accepts fascia or headbox.

ENDCAP COVERS: Plastic covers snap onto endcaps. Available in silver, ivory, bronze, black or white to match fascia.

FASCIA: "L" cover of extruded aluminum, .060 (1.5mm) wall. Fascia snaps onto endcaps. Continuous fascia available with coupled units. Clear Anodized (standard), black, white, ivory, or bronze powder coat finish available.

SURFACE HEADBOX: Consists of fascia, L-shaped back/top cover. Endcaps slide into extrusion without exposed fasteners.

**POCKET HEADBOX:** Optional, for pocket installation, includes a U-shaped back/top/front cover with removable bottom closure panel. **SMALL SIZE:**  $3^7 k$ " x  $3^{15} k$ e" (98x100mm). **LARGE SIZE:**  $4^{11} h$ e" x  $4^{11} h$ e" (119x119mm). Some exposed fasteners required.

TYPE D POCKET: Type D Shade Pocket, of extruded aluminum for perimeter installation. Accepts FlexShades installed with ceiling brackets. Finished in white paint. 5" x 53/6" x .125" (127x136x3mm) with 7k" (22mm) tile support lip & removable bottom closure.

LIGHT GAP REDUCTION HARDWARE: Extruded Aluminum. Accepts edges of fabric,

prevents light gaps. Interior of channel provides for use of flat head screws.

"L" ANGLE: %" x 1" x 12'3" (1.9x2.5x373cm); 1" x 2%" x 16' (2.5x7x488cm) or cut to length.

"U" CHANNEL: 1" x 2½" x 16' (2.5x76x488cm) or cut to length.

"H" CHANNEL: 1" x 5" x 16' (2.5x12.7x488cm) or cut to length. COUPLER ASSEMBLY: Zinc plated steel Coupler Shafts shall be retractable into coupler

assembly for ease of installation and to lock units in place. Zinc plated steel coupler brackets shall have spherical OD bearings allowing for misalignment of the mounting brackets of up to 1.25-degrees. One motor or crank operator to drive additional shade rollers. Patent pending.

PATENT INFORMATION: available at http://www.draperinc.com/legal/patents/

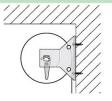
DOWNLOADABLE 3-PART SPECIFICATIONS: available at www.draperinc.com.

Please note: Dimensions of rollers, operators and hardware at manufacturer's discretion.

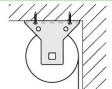
#### Hardware Selections

Please Note: Brackets and endcaps have the attachment points for mounting a Motorized FlexShade. Optional fascia and headbox have a thickness of 1/4" (1.5mm).





Ceiling Mounting **Bracket** 



Fascia with Ceiling / Wall **Mounting Endcaps** 



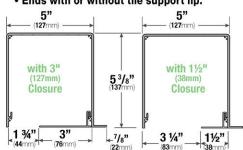
#### **Headbox Installation Options**

#### Surface Headbox Consists of: · Fascia, Back/Top Cover Ceiling/Wall Endcaps Pocket Style Headbox Consists of: Extruded pocket Bottom closure panel Ceiling/Wall Endcaps

#### Type D Pocket

#### Consists of:

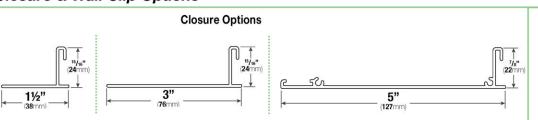
- · Extruded aluminum pocket.
- · A lip supports lay-in ceiling.
- · Pre-welded corners and ends available.
- . Ends with or without tile support lip.



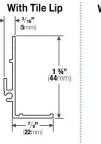
#### Typical pre-welded corner section (not to scale)



#### Closure & Wall Clip Options



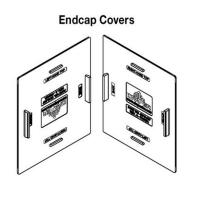
#### Wall Clip Options



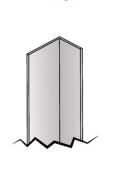










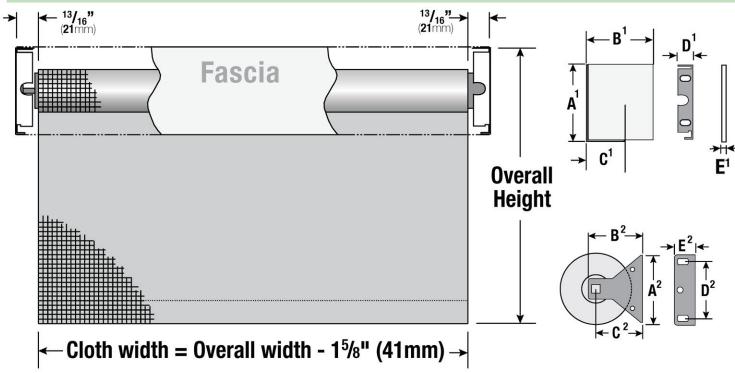


"L" Angle



#### Motorized FlexShade Dimensions

Fascia Overall Width includes plastic endcap covers. Pair adds 1/8" (3mm) to Overall Width of Small Hardware; 3/16" (5mm) to Overall Width of Large Hardware).



HEADBOX WITH ENDCAPS*				
	SMALL		LARGE	
A <sup>1</sup>	3 15/16"	100mm	4 11/16"	119mm
B <sup>1</sup>	3 7/16"	87mm	4 11/16"	119mm
C <sup>1</sup>	1 <sup>1</sup> /2"	38mm	1 <sup>5</sup> /8"	41mm
D <sup>1</sup>	5/8"	16mm	5/8"	16mm
E <sup>1</sup>	<sup>1</sup> / <sub>16</sub> "	1.6mm	3/32"	2.4mm

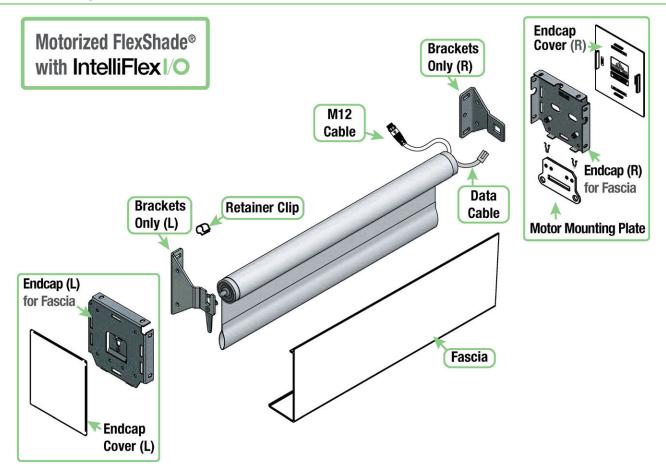
ENDCAPS WITH FASCIA						
	SMALL		LARGE			
A <sup>1</sup>	3 7/8"	98mm	4 <sup>5</sup> /8"	117mm		
B <sup>1</sup>	3 3/8"	86mm	4 5/8"	117mm		
C <sup>1</sup>	1 <sup>1</sup> /2"	38mm	1 <sup>5</sup> / <sub>8</sub> "	41mm		
D <sup>1</sup>	5/8"	16mm	5/8"	16mm		
E <sup>1</sup>	1/16"	1.6mm	3/32"	2.4mm		

BRACKETS						
	SMALL		LARGE			
$A^2$	2 1/2"	64mm	3 1/4"	83mm		
B <sup>2</sup>	2"	51mm	2 5/8"	67mm		
C <sup>2</sup>	1 <sup>5</sup> /8"	41mm	2 1/4"	57mm		
D <sup>2</sup>	2"	51mm	25/8"	67mm		
E <sup>2</sup>	3/4"	20mm	3/4"	20mm		

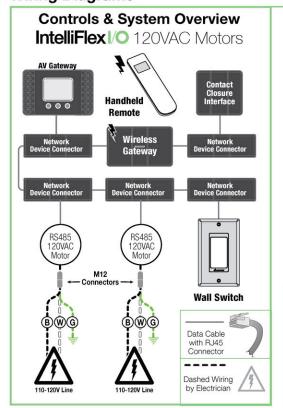
<sup>\*</sup> For Fascia, Subtract 1/16" (1.6mm) from dimensions A and D

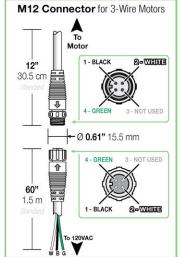


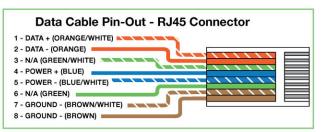
#### FlexShade Components



#### Wiring Diagrams











NOTES:

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