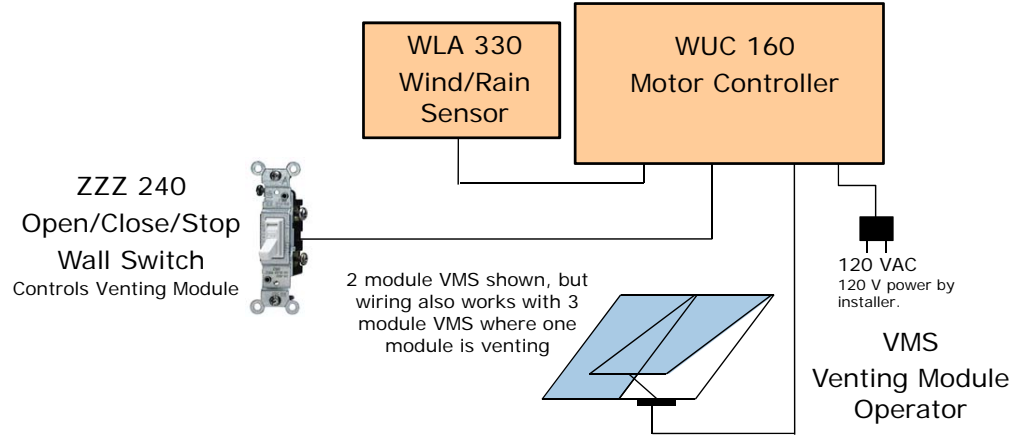




VMS Wiring Overview – One Venting Module



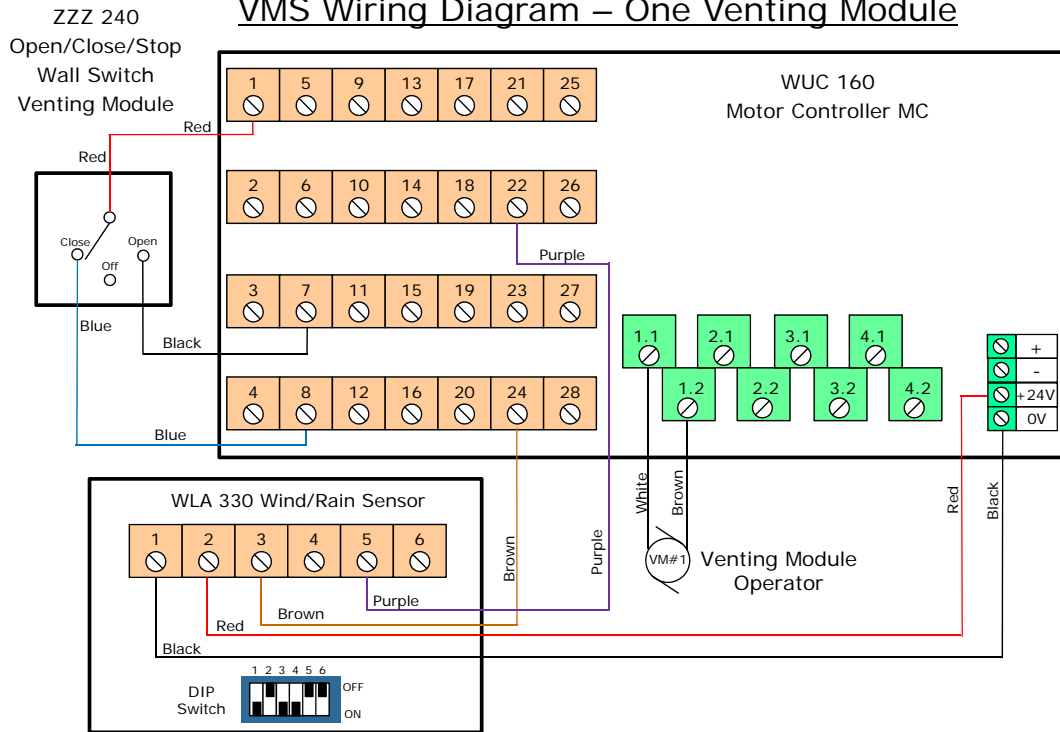
Notes:

1. Refer to WUC 160 and WLA 330 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including module operator, is 24V dc. All wiring between VMS units, controller, switch and sensor is provided by the installer.
5. Exact location of venting module within each VMS assembly shall be coordinated to match installed assembly onsite. Location of venting module within each assembly on this sheet is shown for illustration purposes only.
6. Venting module operator cable has a brown, white and green conductor, only brown and white conductors are used.
7. Only one venting module operator can be wired to each terminal pair, for example terminals 1.1 and 1.2.
8. WLA 330 Wind/Rain Sensor - DIP Switch Settings:
9. VELUX recommends DIP switch setting of:
1=on, 2=off, 3=on, 4=on, 5=off, 6=off

These settings will close the skylights at wind speeds over 22 mph, 5 seconds after detection. There will be a 10 minute override of normal opening operation of the skylights after the last detection of 22 mph winds. After rain is last detected these settings will override normal opening for 10 minutes.

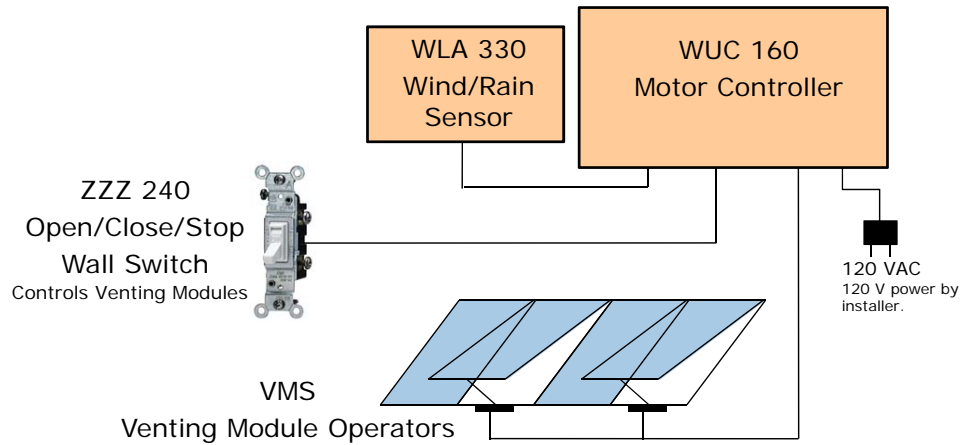
For testing purposes all DIP switches should be set to "OFF" position. During testing the wind sensor is activated anytime the wind wheel is turning and the rain sensor is activated anytime the rain sensor is wet. There is no override of normal operation in test mode.

VMS Wiring Diagram – One Venting Module





VMS Wiring Overview – Two Venting Modules



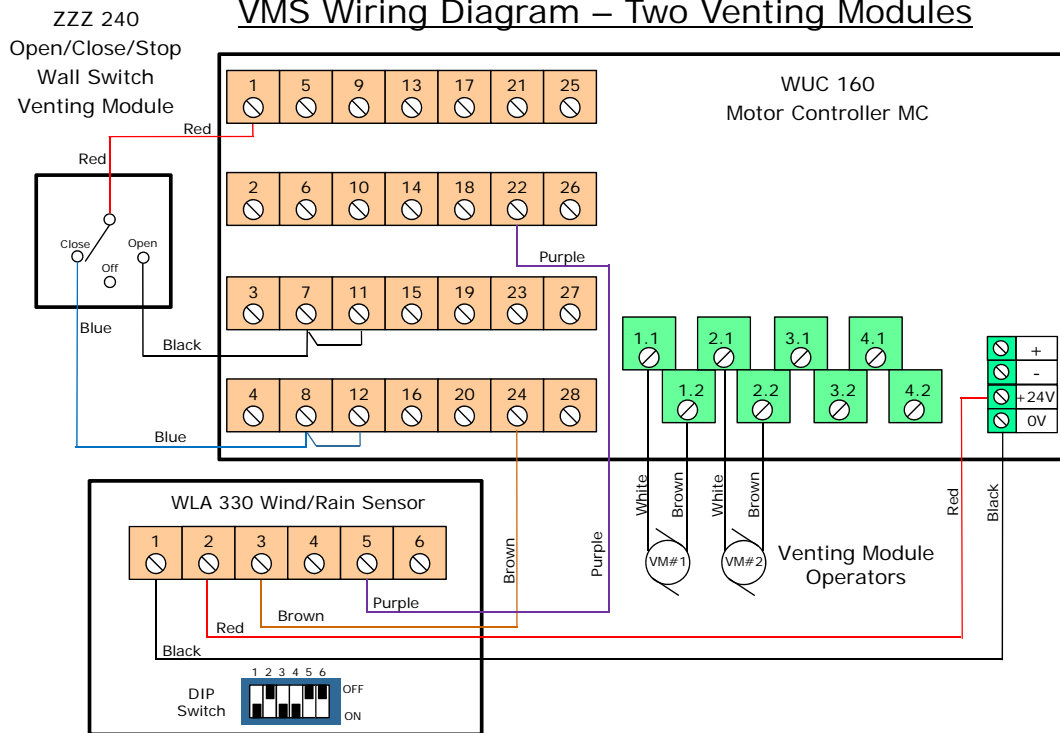
Notes:

1. Refer to WUC 160 and WLA 330 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including module operators, is 24V dc. All wiring between VMS units, controller, switch and sensor is provided by the installer.
5. Exact location of venting modules within each VMS assembly shall be coordinated to match installed assembly onsite. Location of venting modules within each assembly on this sheet is shown for illustration purposes only.
6. Each Venting module operator cable has a brown, white and green conductor, only brown and white conductors are used.
7. Only one venting module operator can be wired to each terminal pair, for example terminals 1.1 and 1.2.
8. WLA 330 Wind/Rain Sensor - DIP Switch Settings:
9. VELUX recommends DIP switch setting of:
1=on, 2=off, 3=on, 4=on, 5=off, 6=off

These settings will close the skylights at wind speeds over 22 mph, 5 seconds after detection. There will be a 10 minute override of normal opening operation of the skylights after the last detection of 22 mph winds. After rain is last detected these settings will override normal opening for 10 minutes.

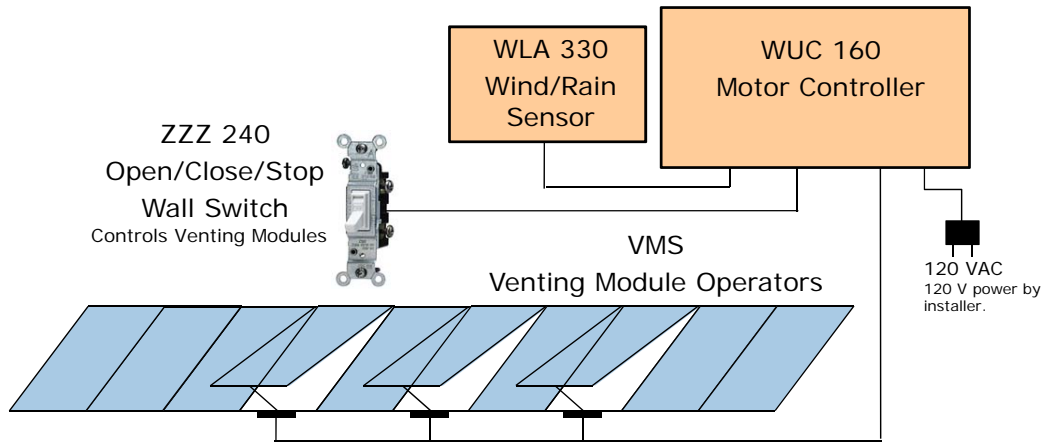
For testing purposes all DIP switches should be set to "OFF" position. During testing the wind sensor is activated anytime the wind wheel is turning and the rain sensor is activated anytime the rain sensor is wet. There is no override of normal operation in test mode.

VMS Wiring Diagram – Two Venting Modules





VMS Wiring Overview – Three Venting Modules



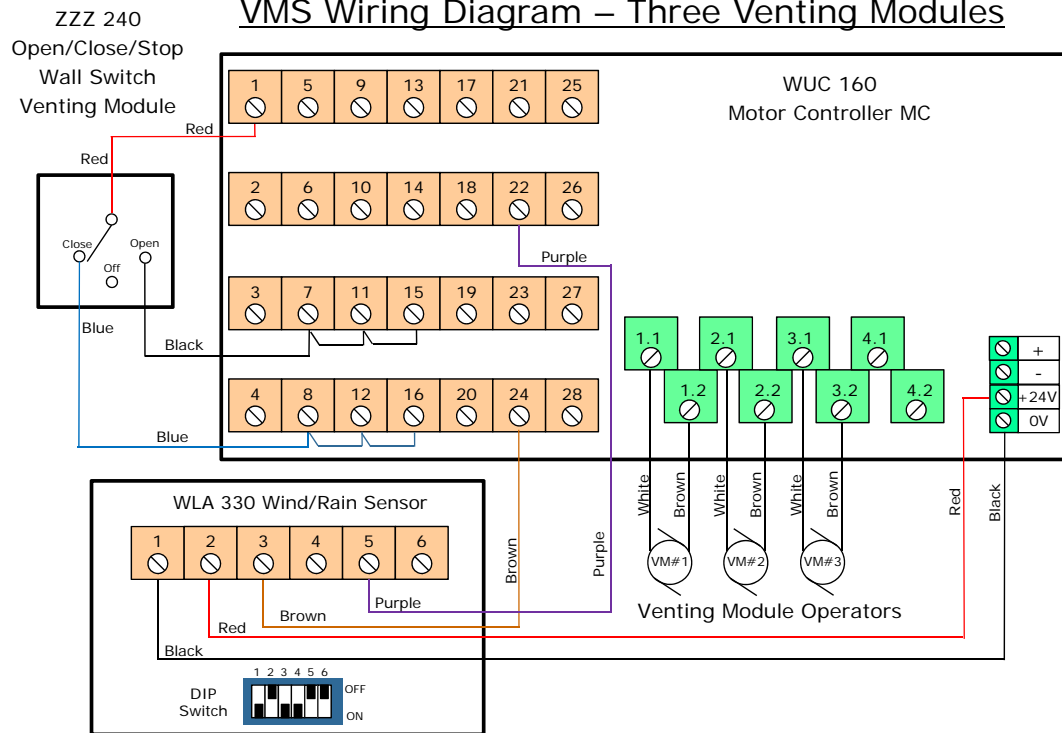
Notes:

1. Refer to WUC 160 and WLA 330 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including module operators, is 24V dc. All wiring between VMS units, controller, switch and sensor is provided by the installer.
5. Exact location of venting modules within each VMS assembly shall be coordinated to match installed assembly onsite. Location of venting modules within each assembly on this sheet is shown for illustration purposes only.
6. Each Venting module operator cable has a brown, white and green conductor, only brown and white conductors are used.
7. Only one venting module operator can be wired to each terminal pair, for example terminals 1.1 and 1.2.
8. WLA 330 Wind/Rain Sensor - DIP Switch Settings:
9. VELUX recommends DIP switch setting of:
1=on, 2=off, 3=on, 4=on, 5=off, 6=off

These settings will close the skylights at wind speeds over 22 mph, 5 seconds after detection. There will be a 10 minute override of normal opening operation of the skylights after the last detection of 22 mph winds. After rain is last detected these settings will override normal opening for 10 minutes.

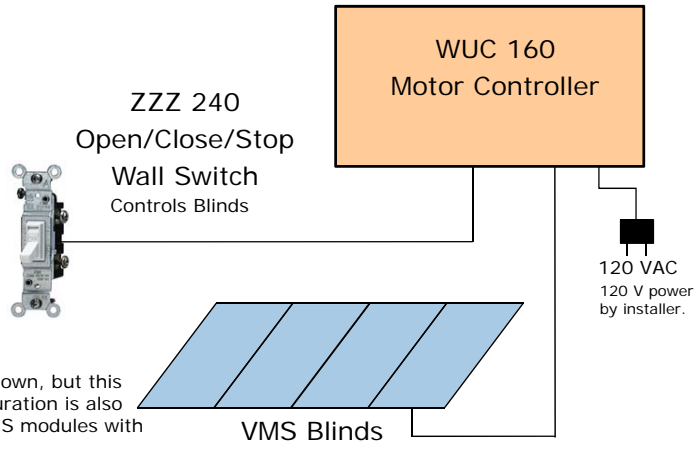
For testing purposes all DIP switches should be set to "OFF" position. During testing the wind sensor is activated anytime the wind wheel is turning and the rain sensor is activated anytime the rain sensor is wet. There is no override of normal operation in test mode.

VMS Wiring Diagram – Three Venting Modules



VMS Wiring Overview

Maximum 4 Blinds and No Venting Modules



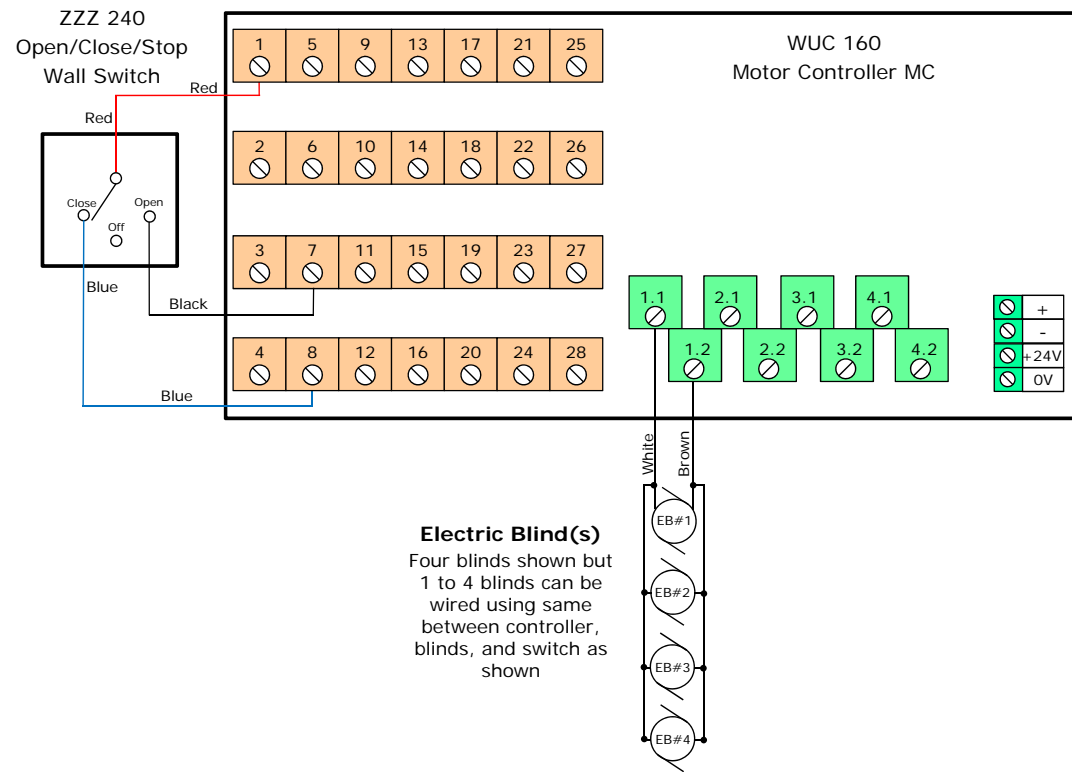
4 VMS modules shown, but this same blind configuration is also used for 1 to 4 VMS modules with blinds

Notes:

1. Refer to WUC 160 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including blinds, is 24V dc. All wiring between VMS units, controller, and switch is provided by the installer.
5. Each electric blind cable has a brown, white and black conductor, only brown and white conductors are used. Black conductor is not used.
6. Maximum of four electric blinds can be wired to each terminal pair, for example terminals 1.1 and 1.2.

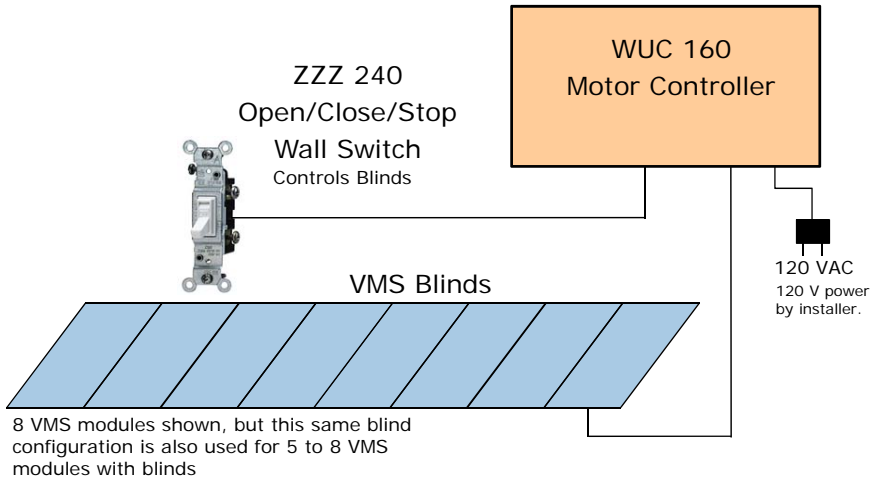
VMS Wiring Diagram

Maximum 4 Blinds and No Venting Modules



VMS Wiring Overview

Maximum 8 Blinds and No Venting Modules

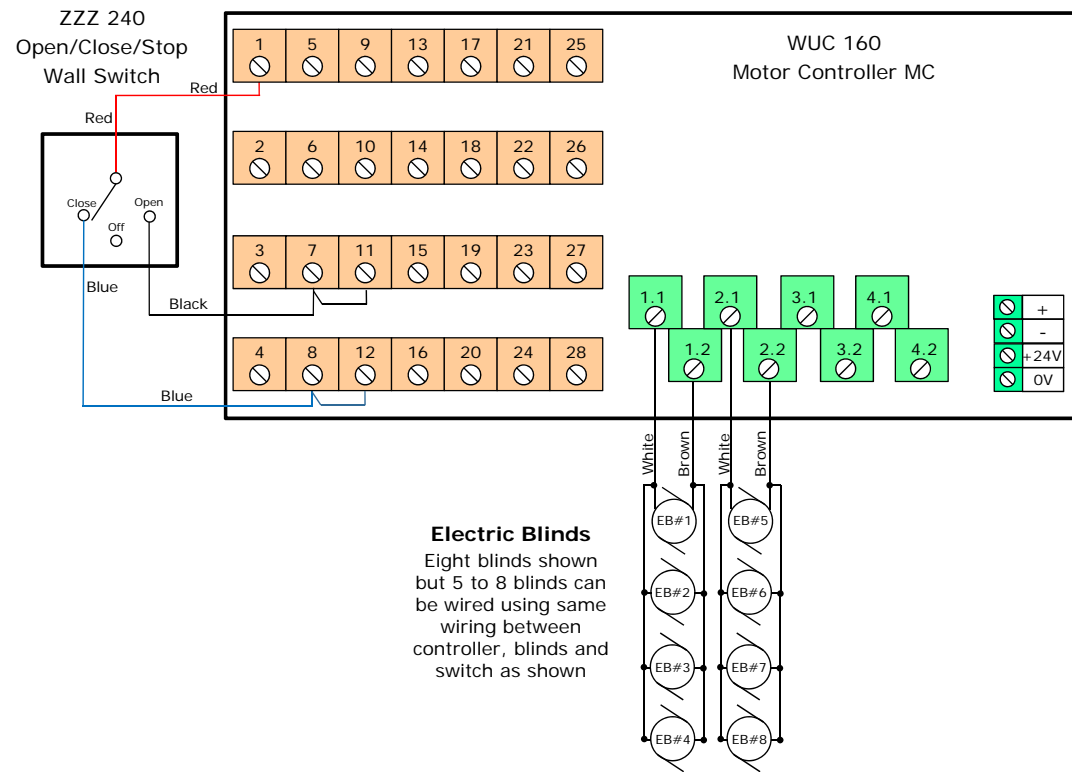


Notes:

1. Refer to WUC 160 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including blinds, is 24V dc. All wiring between VMS units, controller, and switch is provided by the installer.
5. Each electric blind cable has a brown, white and black conductor, only brown and white conductors are used. Black conductor is not used.
6. Maximum of four electric blinds can be wired to each terminal pair, for example terminals 1.1 and 1.2.

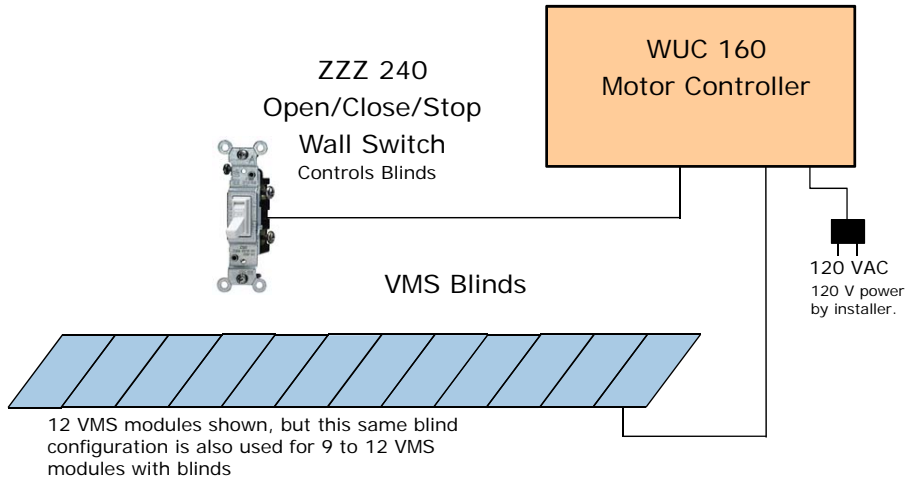
VMS Wiring Diagram

Maximum 8 Blinds and No Venting Modules



VMS Wiring Overview

Maximum 12 Blinds and No Venting Modules

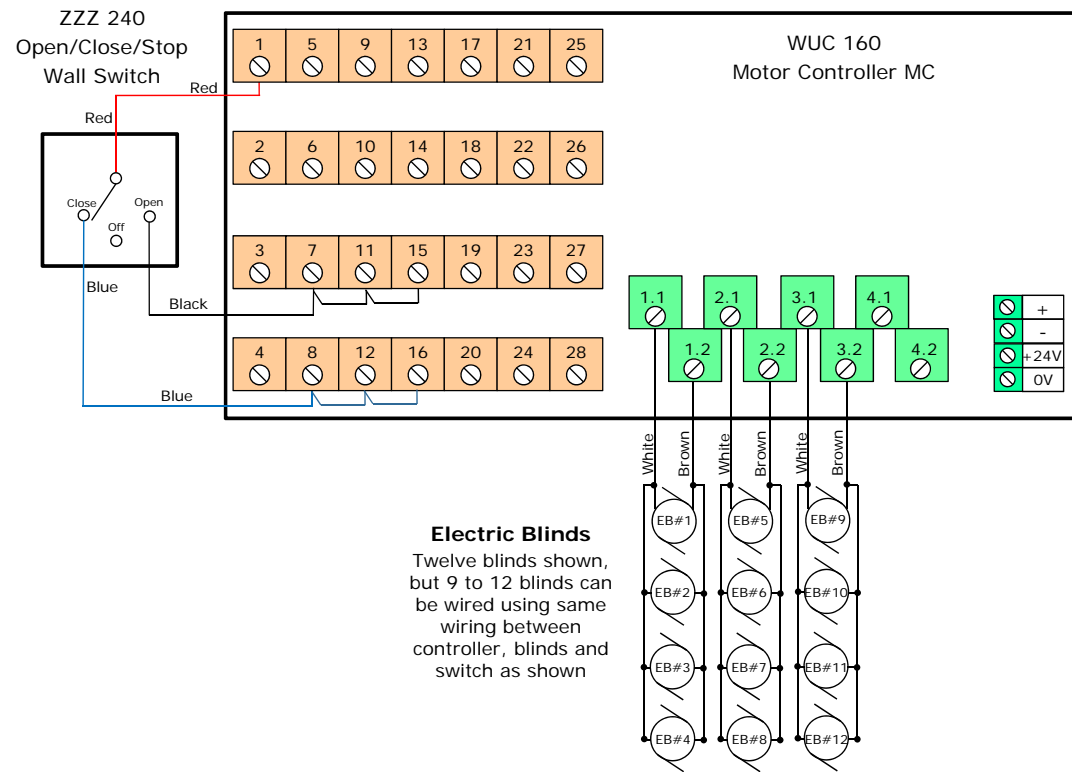


Notes:

1. Refer to WUC 160 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including blinds, is 24V dc. All wiring between VMS units, controller, and switch is provided by the installer.
5. Each electric blind cable has a brown, white and black conductor, only brown and white conductors are used. Black conductor is not used.
6. Maximum of four electric blinds can be wired to each terminal pair, for example terminals 1.1 and 1.2.

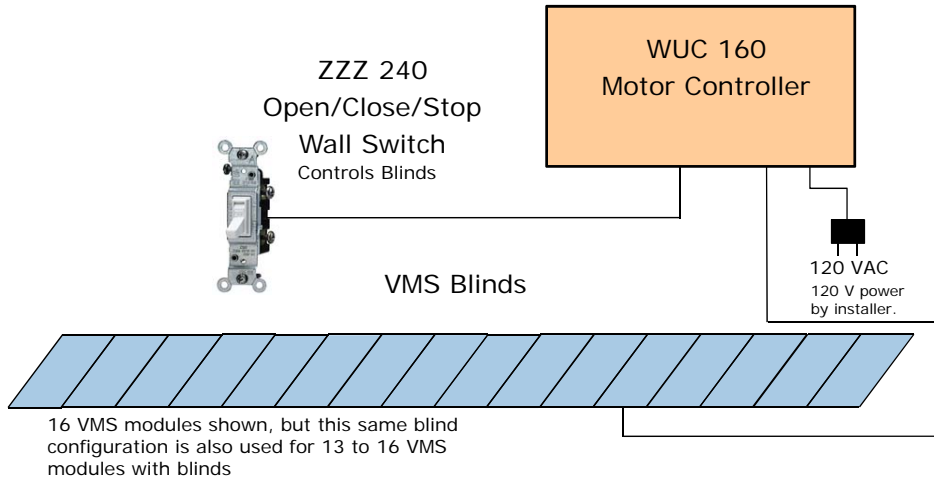
VMS Wiring Diagram

Maximum 12 Blinds and No Venting Modules



VMS Wiring Overview

Maximum 16 Blinds and No Venting Modules

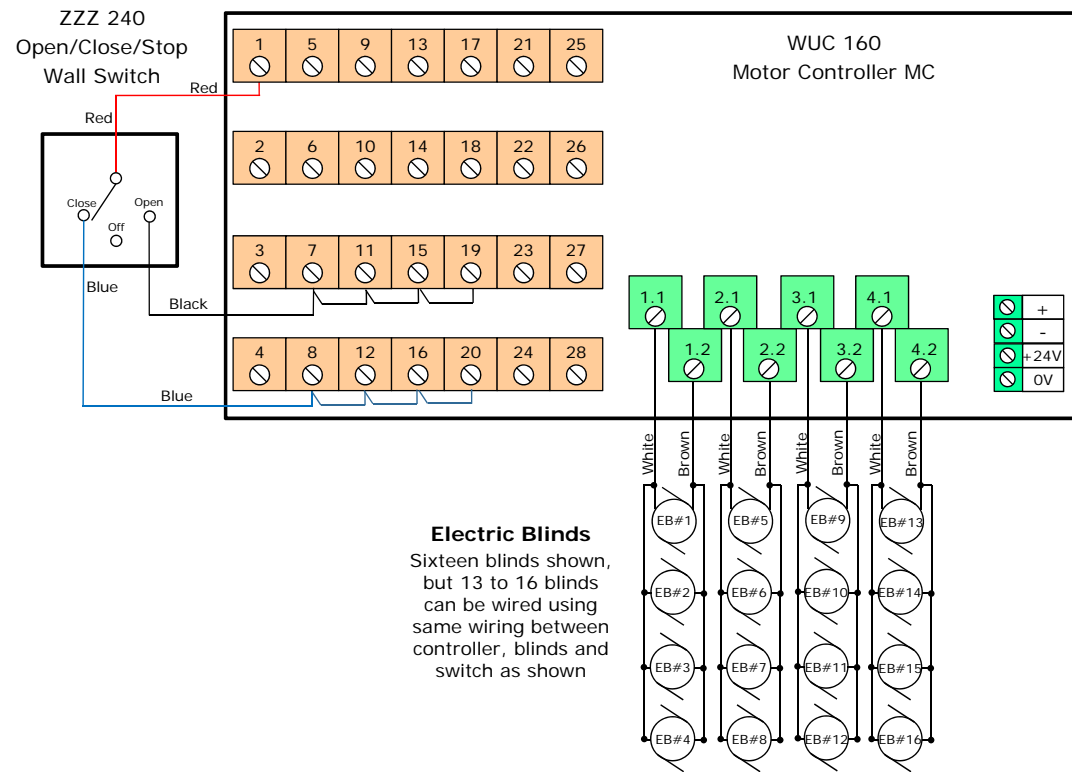


Notes:

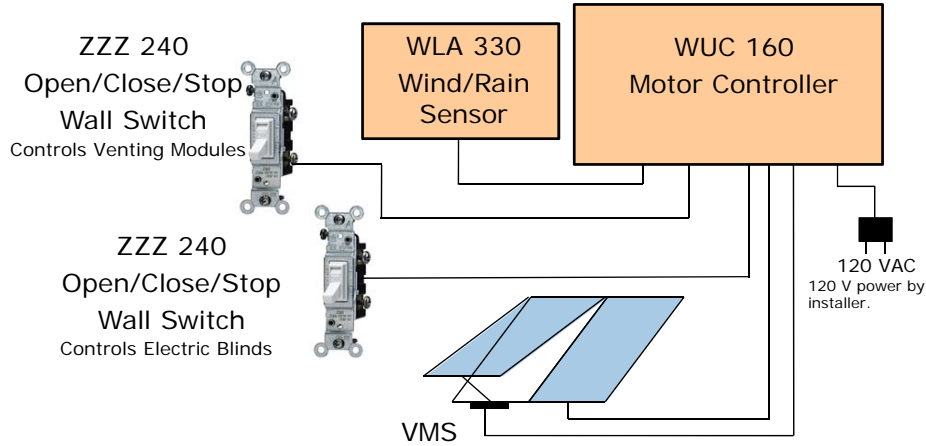
1. Refer to WUC 160 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including blinds, is 24V dc. All wiring between VMS units, controller, and switch is provided by the installer.
5. Each electric blind cable has a brown, white and black conductor, only brown and white conductors are used. Black conductor is not used.
6. Maximum of four electric blinds can be wired to each terminal pair, for example terminals 1.1 and 1.2.

VMS Wiring Diagram

Maximum 16 Blinds and No Venting Modules



VMS Wiring Overview – 1 Venting Module & 2 Blinds



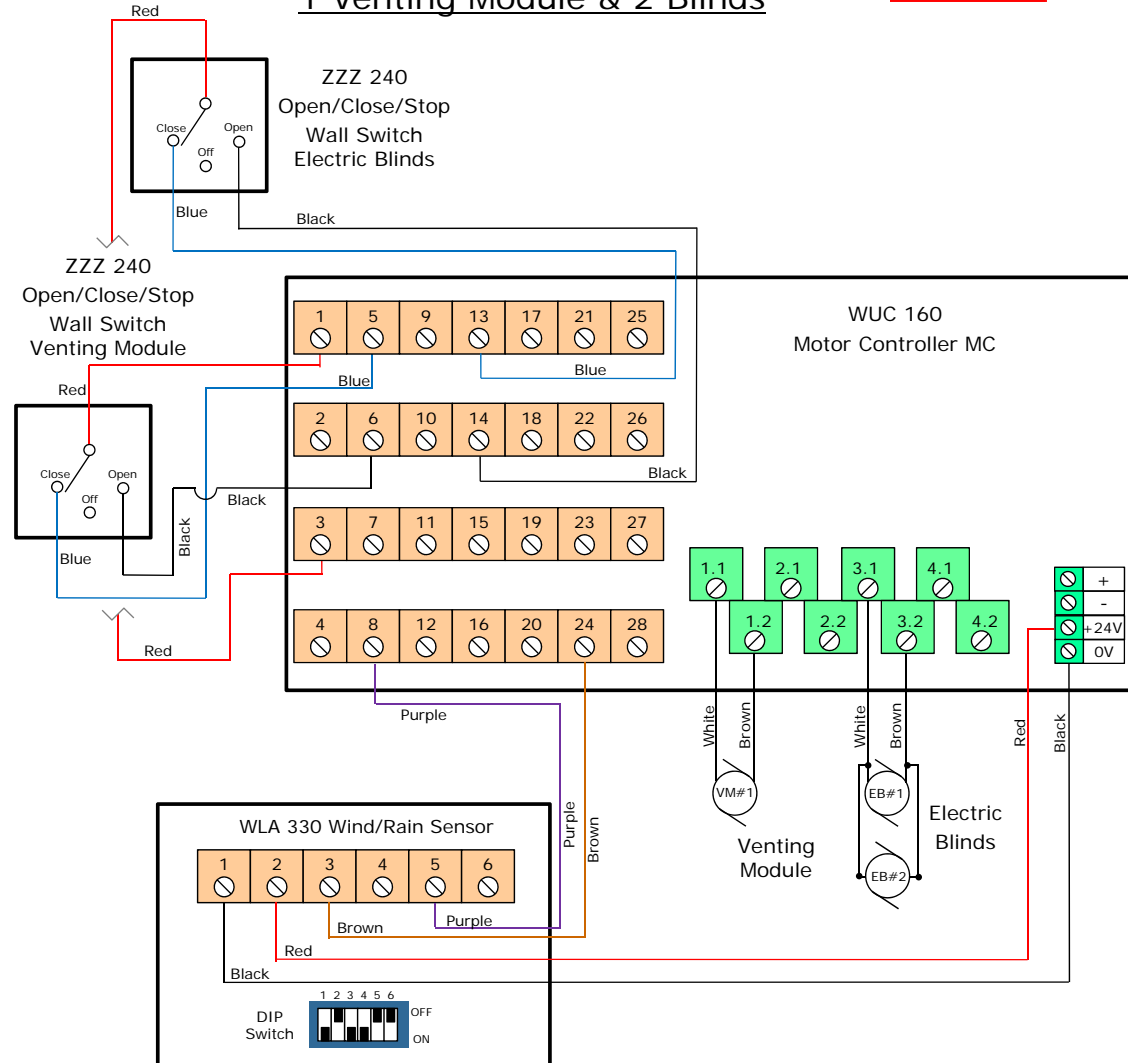
Notes:

- All wiring shown, including module operators, is 24V dc.
- Each venting module operator cable has a brown, white and green conductor, only brown and white conductors are used.
- Each electric blind cable has a brown, white and black conductor, only brown and white conductors are used. Black conductor is not used.
- Only one venting module operator can be wired to each terminal pair, for example terminals 1.1 and 1.2.
- Maximum of four electric blinds can be wired to each terminal pair, for example terminals 1.1 and 1.2.
- WLA 330 Wind/Rain Sensor - DIP Switch Settings:
VELUX recommends DIP switch setting of:
1=on, 2=off, 3=on, 4=on, 5=off, 6=off

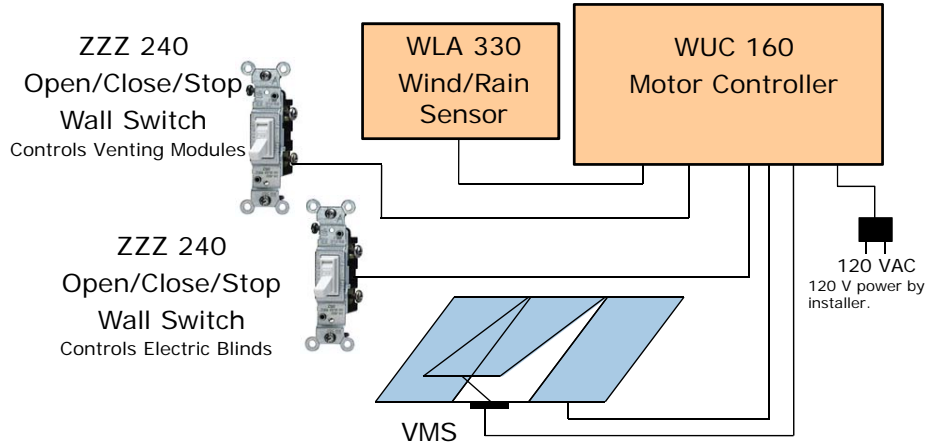
These settings will close the skylights at wind speeds over 22 mph, 5 seconds after detection. There will be a 10 minute override of normal opening operation of the skylights after the last detection of 22 mph winds. After rain is last detected these settings will override normal opening for 10 minutes.

For testing purposes all DIP switches should be set to "OFF" position. During testing the wind sensor is activated anytime the wind wheel is turning and the rain sensor is activated anytime the rain sensor is wet. There is no override of normal operation in test mode.

VMS Wiring Diagram 1 Venting Module & 2 Blinds



VMS Wiring Overview – 1 Venting Module & 3 Blinds



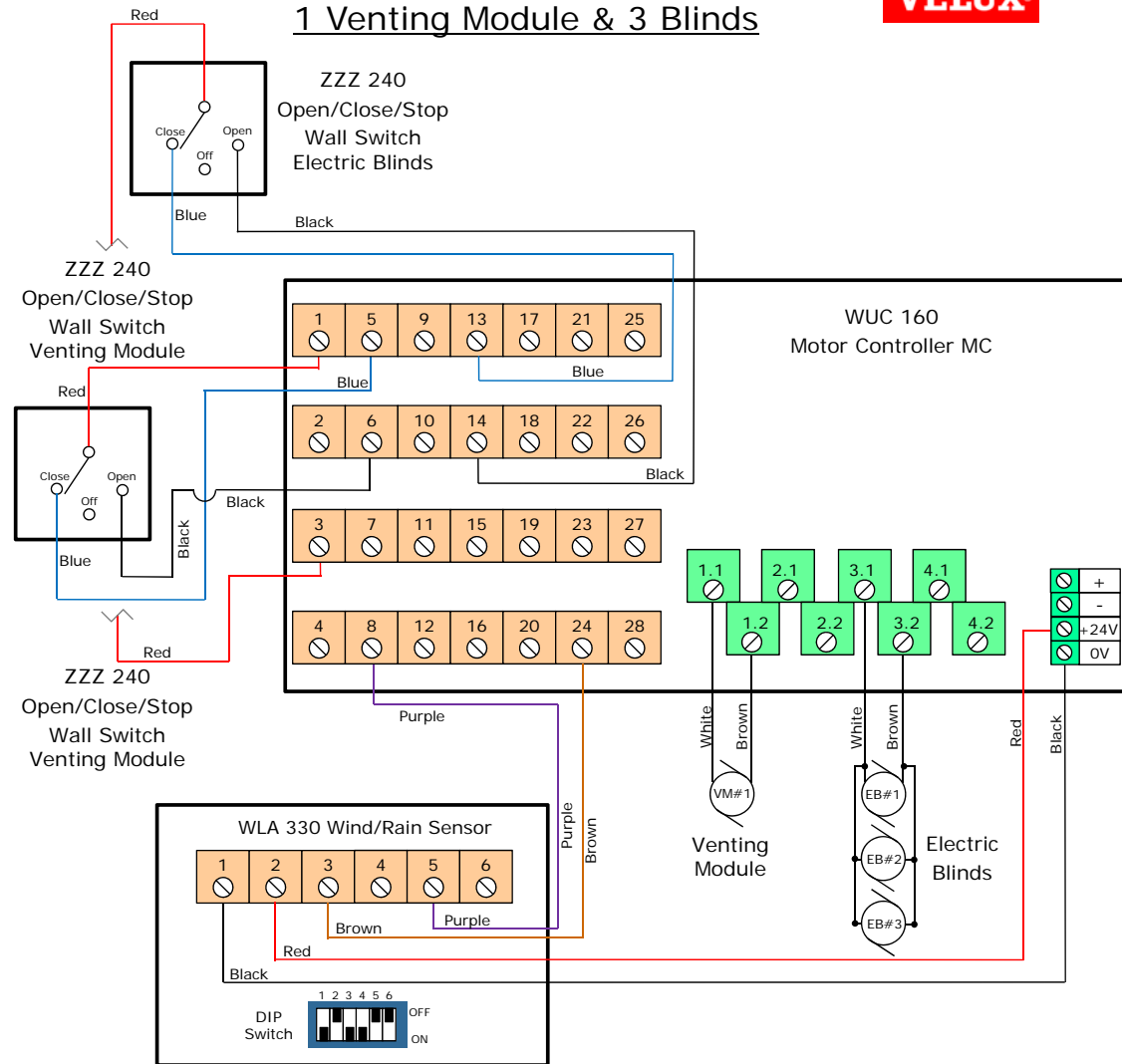
Notes:

1. All wiring shown, including module operators, is 24V dc.
2. Each venting module operator cable has a brown, white and green conductor, only brown and white conductors are used.
3. Each electric blind cable has a brown, white and black conductor, only brown and white conductors are used. Black conductor is not used.
4. Only one venting module operator can be wired to each terminal pair, for example terminals 1.1 and 1.2.
5. Maximum of four electric blinds can be wired to each terminal pair, for example terminals 1.1 and 1.2.
6. WLA 330 Wind/Rain Sensor - DIP Switch Settings:
VELUX recommends DIP switch setting of:
1=on, 2=off, 3=on, 4=on, 5=off, 6=off

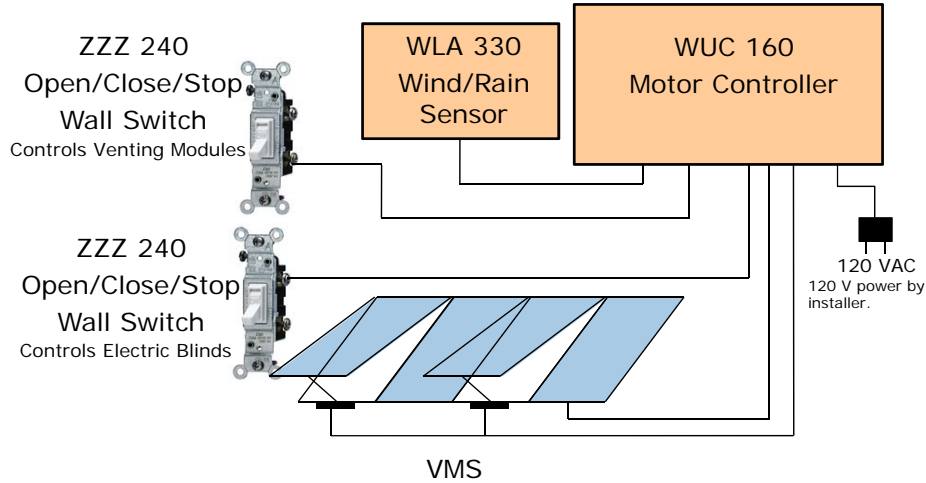
These settings will close the skylights at wind speeds over 22 mph, 5 seconds after detection. There will be a 10 minute override of normal opening operation of the skylights after the last detection of 22 mph winds. After rain is last detected these settings will override normal opening for 10 minutes.

For testing purposes all DIP switches should be set to "OFF" position. During testing the wind sensor is activated anytime the wind wheel is turning and the rain sensor is activated anytime the rain sensor is wet. There is no override of normal operation in test mode.

VMS Wiring Diagram 1 Venting Module & 3 Blinds



VMS Wiring Overview – 2 Venting Module & 4 Blinds



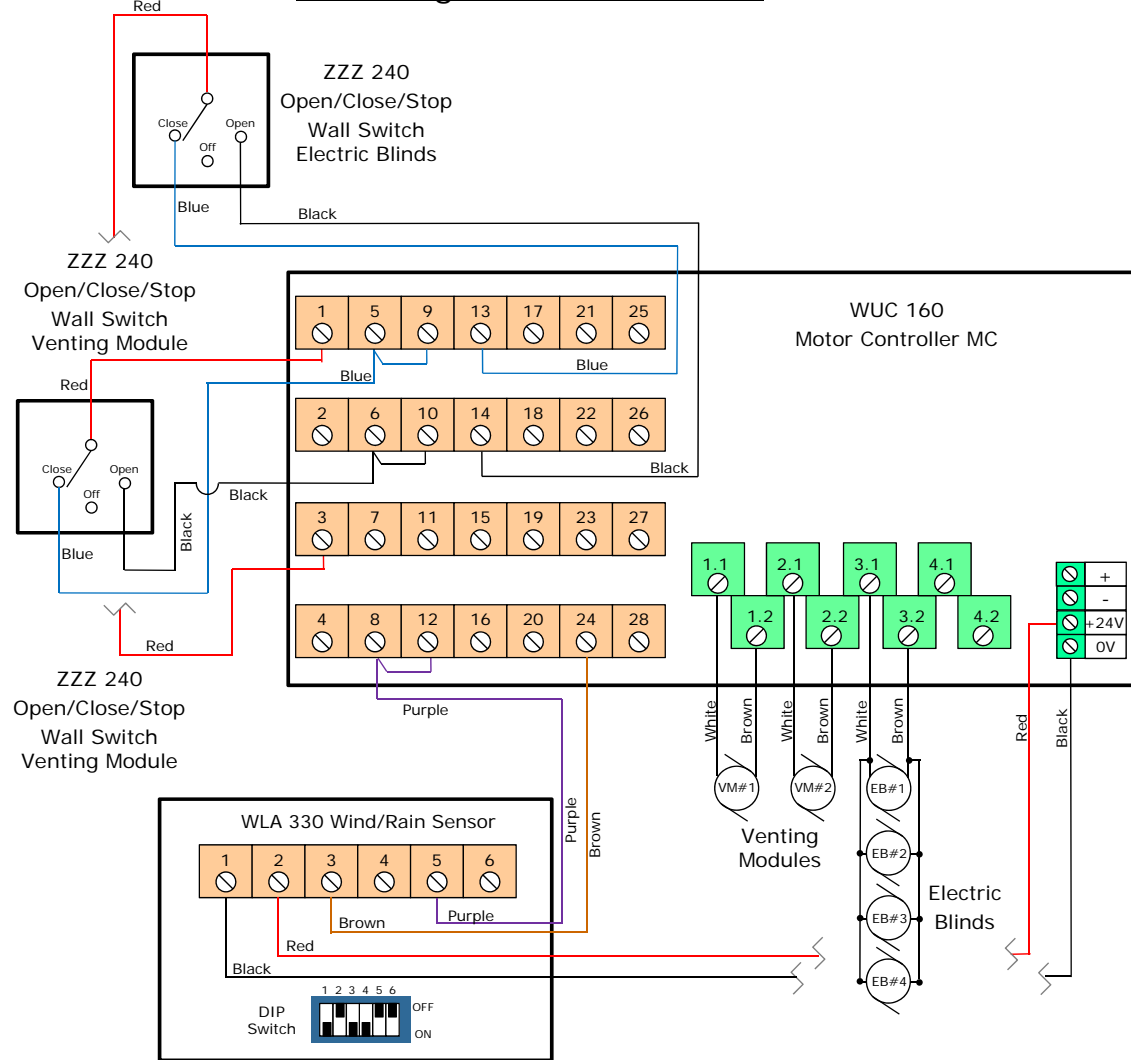
Notes:

- All wiring shown, including module operators, is 24V dc.
- Each venting module operator cable has a brown, white and green conductor, only brown and white conductors are used.
- Each electric blind cable has a brown, white and black conductor, only brown and white conductors are used. Black conductor is not used.
- Only one venting module operator can be wired to each terminal pair, for example terminals 1.1 and 1.2.
- Maximum of four electric blinds can be wired to each terminal pair, for example terminals 1.1 and 1.2.
- WLA 330 Wind/Rain Sensor - DIP Switch Settings:
VELUX recommends DIP switch setting of:
1=on, 2=off, 3=on, 4=on, 5=off, 6=off

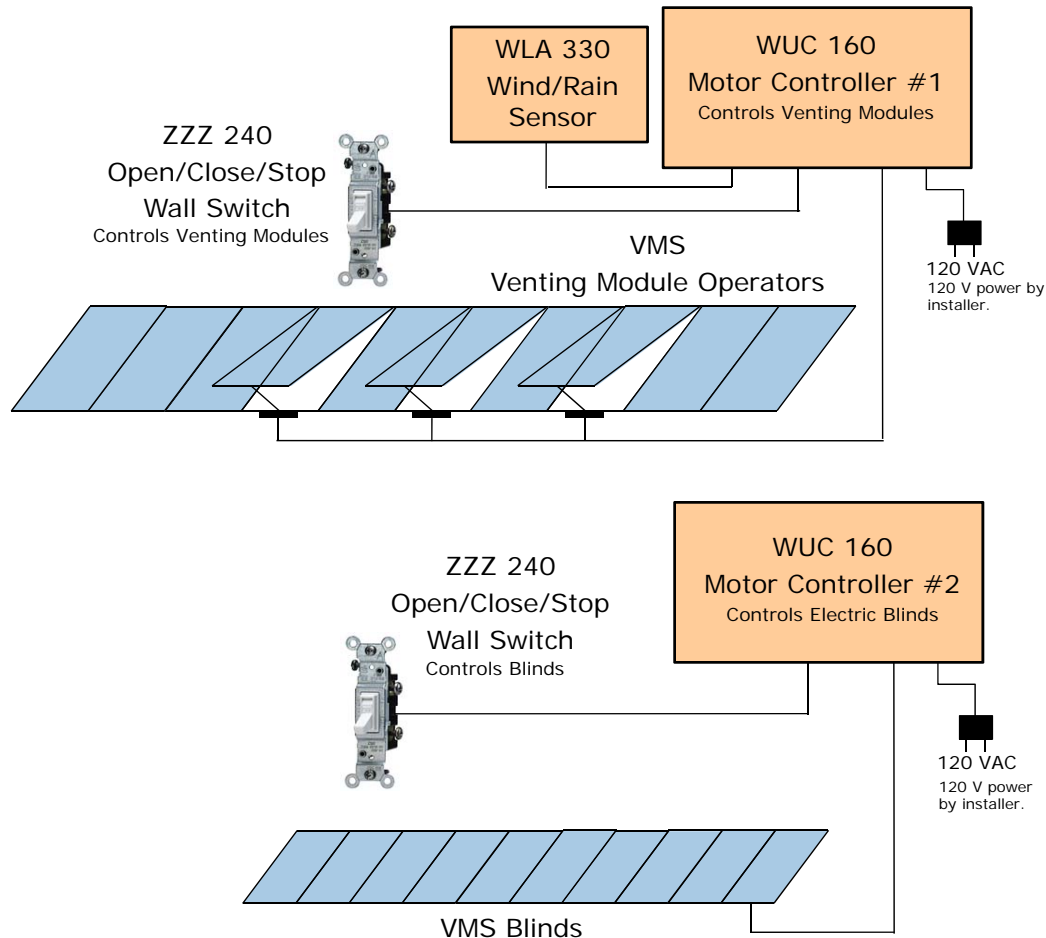
These settings will close the skylights at wind speeds over 22 mph, 5 seconds after detection. There will be a 10 minute override of normal opening operation of the skylights after the last detection of 22 mph winds. After rain is last detected these settings will override normal opening for 10 minutes.

For testing purposes all DIP switches should be set to "OFF" position. During testing the wind sensor is activated anytime the wind wheel is turning and the rain sensor is activated anytime the rain sensor is wet. There is no override of normal operation in test mode.

VMS Wiring Diagram 2 Venting Module & 4 Blinds



VMS Wiring Overview – 3 Venting Module & 10 Blinds



Notes:

1. Refer to WUC 160 and WLA 330 instructions for additional details.
2. All electrical work should be performed by a licensed electrician in accordance with all codes and ordinances.
3. Switch is 15 amp, 120/277 Volt, single pole, double throw maintained contacts with center off.
4. All wiring shown, including module operators, is 24V dc. All wiring between VMS units, controller, switch and sensor is provided by the installer.
5. Exact location of venting modules within each VMS assembly shall be coordinated to match installed assembly onsite. Location of venting modules within each assembly on this sheet is shown for illustration purposes only.
6. Each Venting module operator cable has a brown, white and green conductor, only brown and white conductors are used.
7. Only one venting module operator can be wired to each terminal pair, for example terminals 1.1 and 1.2.
8. WLA 330 Wind/Rain Sensor - DIP Switch Settings:
9. VELUX recommends DIP switch setting of:
1=on, 2=off, 3=on, 4=on, 5=off, 6=off

These settings will close the skylights at wind speeds over 22 mph, 5 seconds after detection. There will be a 10 minute override of normal opening operation of the skylights after the last detection of 22 mph winds. After rain is last detected these settings will override normal opening for 10 minutes.

For testing purposes all DIP switches should be set to "OFF" position. During testing the wind sensor is activated anytime the wind wheel is turning and the rain sensor is activated anytime the rain sensor is wet. There is no override of normal operation in test mode.

VMS Wiring Diagram - 3 Venting Module & 10 Blinds

See wiring diagram for three venting modules on page 3 and wiring diagram for 12 electric blinds on page 6.



WUC 160 Motor Controller - Layout

Motor controller depth is 3.75"

