



# Title 24 2019 Zūm<sup>®</sup> Wired Solutions Healthcare Applications

Crestron Electronics, Inc.

**Original Instructions**

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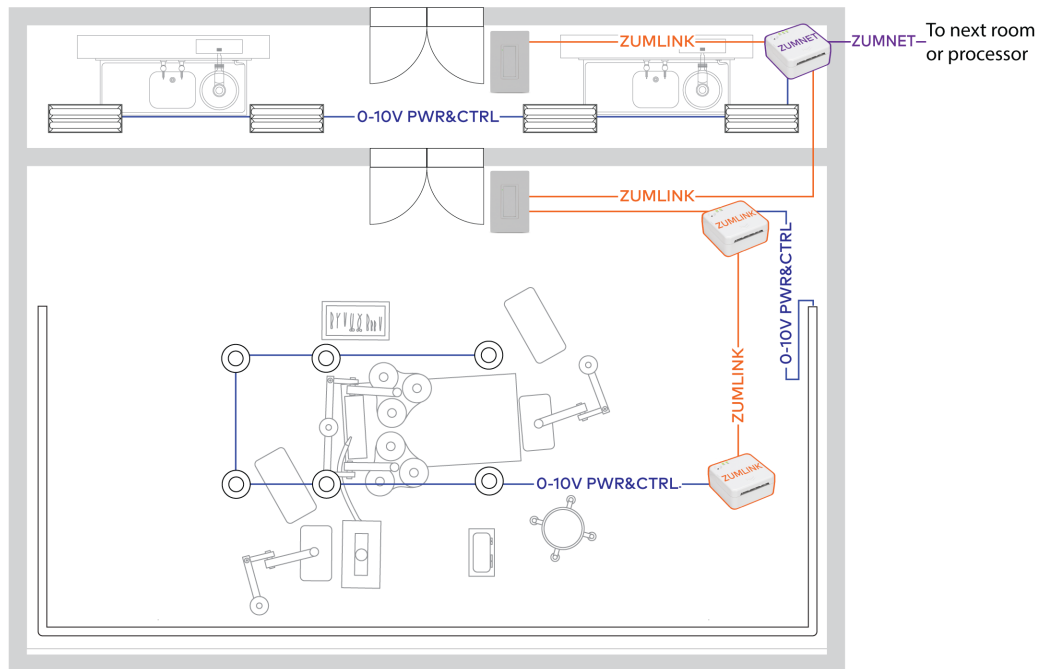
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# Zūm® Wired: 0 - 10V Drivers



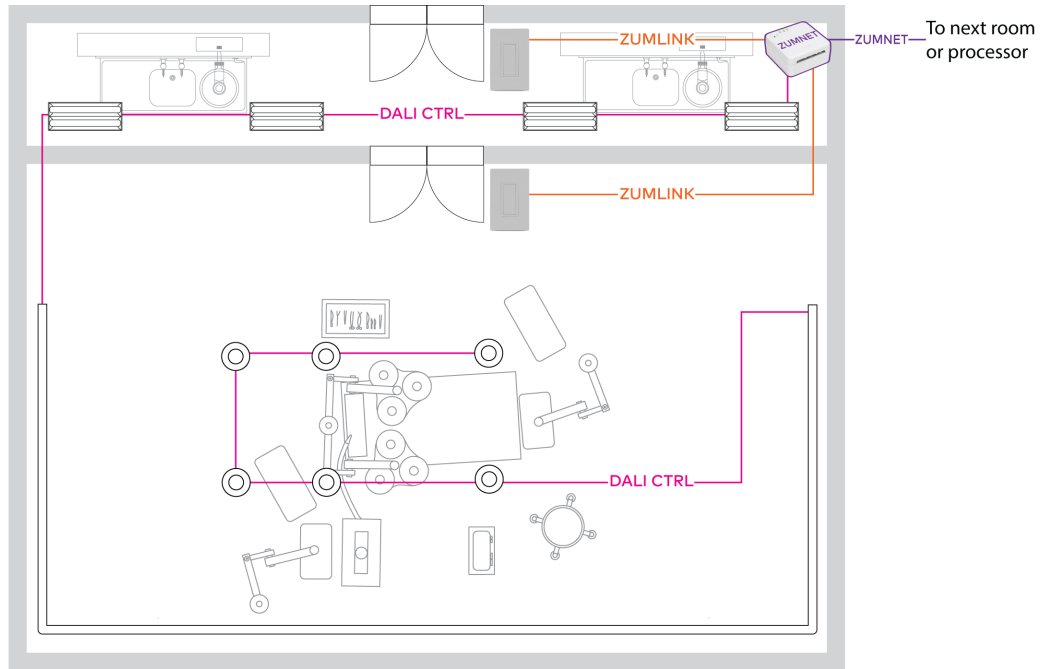
## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Zūm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-JBOX-16A-LV Zūm Link, Dimmer, 0-10V 16A	2
	ZUMLINK-KP Zūm Link Keypad, Manual Control	2
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD





## Code

- Manual Control Device**  
130.1(a), 130.1(b)  
Local manual switch, multi-level control
- Programmable Timeclock**  
130.1(c) 1, 130.2(c) 1 & 2  
Timeclock-based shut off controls
- Demand Response**  
130.1(e), 110.12(c)  
Partial Off during demand response signal

# Zūm® Wired: DALI® Drivers



## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-DALI Zūm Net, DALI	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	2
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD

## Code

### Manual Control Device

130.1(a), 130.1(b)  
Local manual switch, multi-level control

### Programmable Timeclock

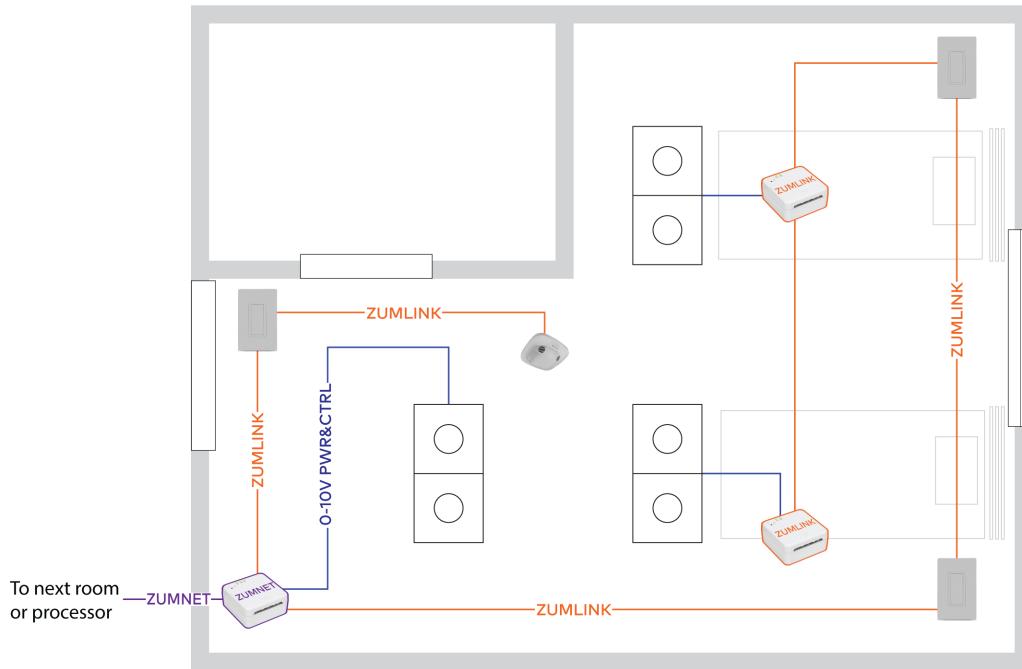
130.1(c) 1, 130.2(c) 1 & 2  
Timeclock-based shut off controls

### Demand Response






130.1(e), 110.12(c)  
Partial Off during demand response signal



# Zūm® Wired: 0 - 10V Drivers



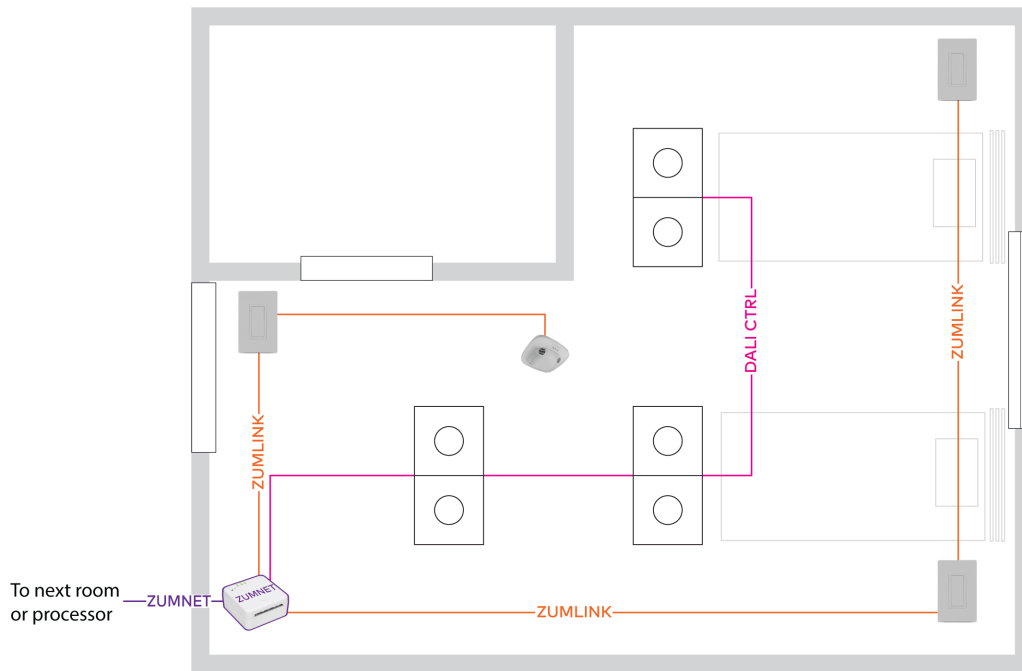
## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Zūm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	3
	ZUMLINK-DT-QUATTRO-DLS Zūm Link Presence Detector/ Closed-Loop Daylight Sensor	1
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD






## Code

<b>Manual Control Device</b> 130.1(a), 130.1(b) Local manual switch, multi-level control
<b>Vacancy Sensor Manual On</b> 130.1.5.B Physical control interface for occupant
<b>Occupancy Sensor Full Off</b> 130.1(c) 5, 130.2(a) Auto Off during vacancy
<b>Demand Response</b> 130.1(e), 110.12(c) Partial Off during demand response signal

# Zūm® Wired: DALI® Drivers



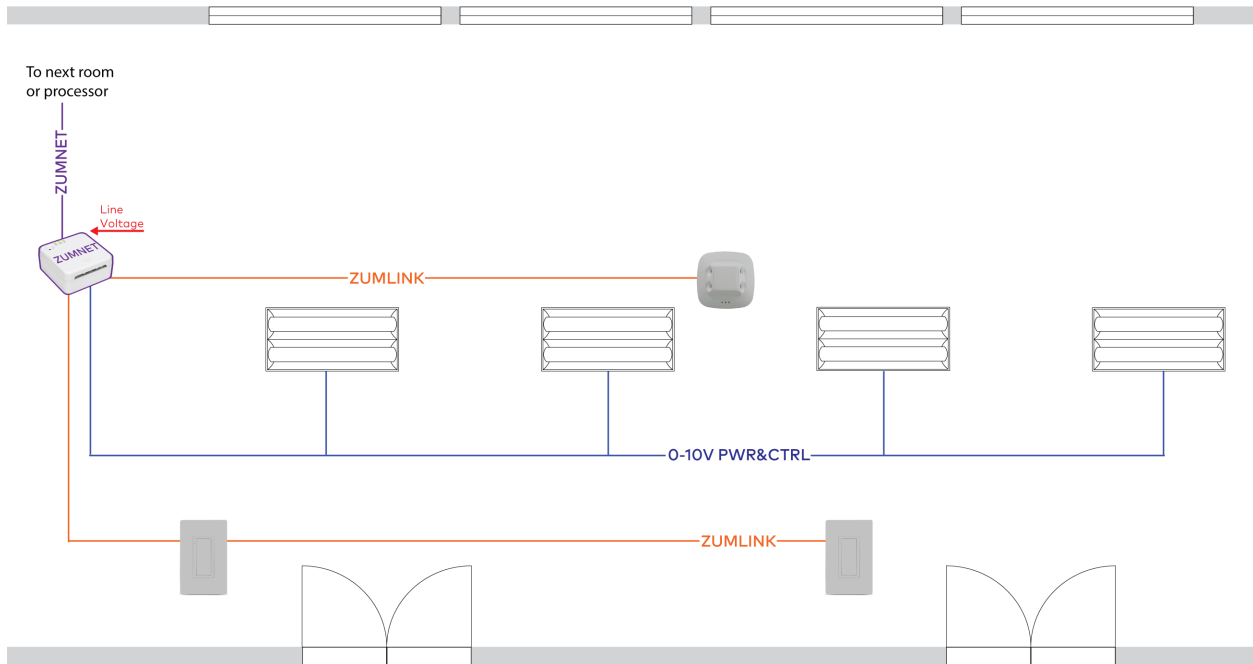
## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-DALI Zūm Net, DALI	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	3
	ZUMLINK-DT-QUATTRO-DLS Zūm Link Presence Detector/ Closed-Loop Daylight Sensor	1
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD






## Code

- Manual Control Device**  
130.1(a), 130.1(b)  
Local manual switch, multi-level control
- Vacancy Sensor Manual On**  
130.1.5.B  
Physical control interface for occupant
- Occupancy Sensor Full Off**  
130.1(c) 5, 130.2(a)  
Auto Off during vacancy
- Demand Response**  
130.1(e), 110.12(c)  
Partial Off during demand response signal

## Züm® Wired: 0 - 10V Drivers



## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Züm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-KP Züm Link Keypad, Manual Control	2
	ZUMLINK-US-HALLWAY-DLS Züm Link Presence Detector Closed-Loop Daylight Sensor	1
	CBL-CAT5E-ZUMLINK-P Züm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Züm Net CAT5e, various lengths	TBD

## Code

**Manual Control Device**

130.1(a), 130.1(b)  
Local manual switch, multi-level control

**Occupancy Sensor Full On**

130.1(c) 1  
Full On during occupancy

**Occupancy Sensor Partial Off**

130.1(c) 6 & 7, 130.2(c) 3  
Partial Off during vacancy

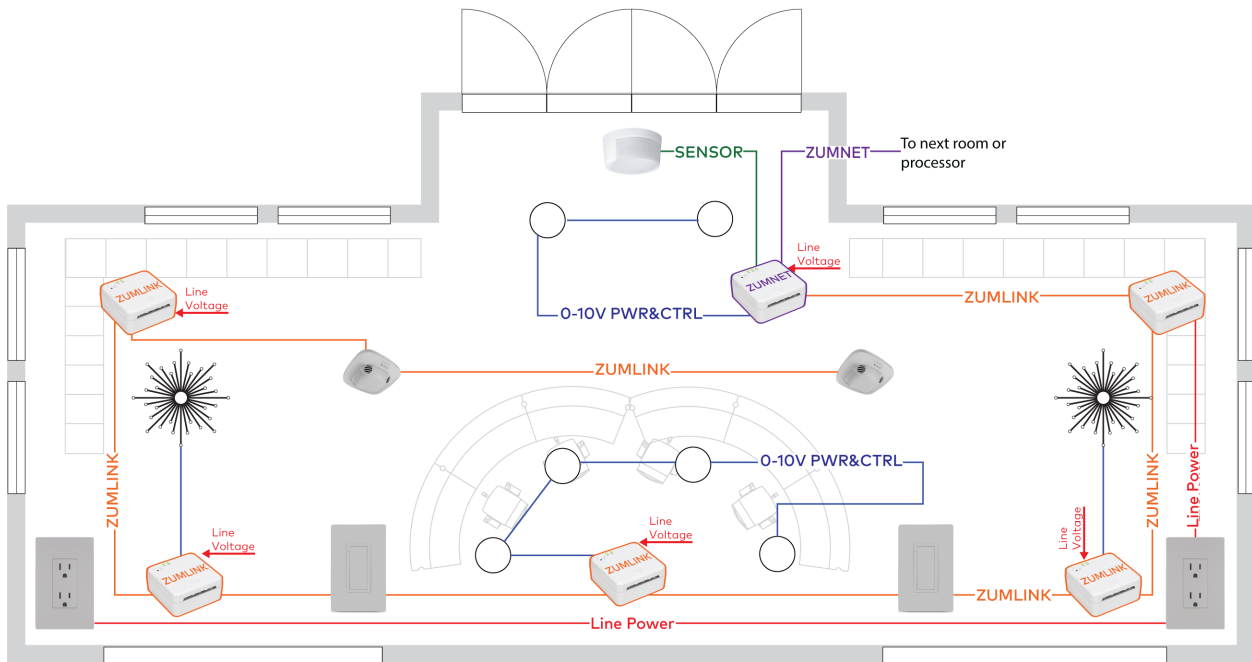
**Daylight Response**

130.1(d), 130.2(c) 1  
Adjust lights based on available daylight

**Demand Response**

130.1(e), 110.12(c)  
Partial Off during demand response signal

# Züm® Wired: 0 - 10V Drivers



## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Züm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-JBOX-16A-LV Züm Link, Dimmer, 0-10V 16A	3
	ZUMLINK-JBOX-20A-PLUG Züm Link, Plug, 20A	1
	ZUMLINK-KP Züm Link Keypad, Manual Control	2
	ZUMLINK-DT-QUATTRO-DLS Züm Link Presence Detector/ Closed-Loop Daylight Sensor	2
	GLA-LDL-PC-0-10 Open/Closed Loop Daylight Sensor	1
	Receptacle	2
	CBL-CAT5E-ZUMLINK-P Züm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Züm Net CAT5e, various lengths	TBD

## Code

### Manual Control Device

130.1(a), 130.1(b)  
Local manual switch, multi-level control

### Programmable Timeclock

130.1(c) 1, 130.2(c) 1 & 2  
Timeclock-based shut off controls

### Occupancy Sensor Full On

130.1(c) 1  
Full On during occupancy

### Occupancy Sensor Full Off

130.1(c) 5, 130.2(a)  
Auto Off during vacancy

### Daylight Response

130.1(d), 130.2(c) 1  
Adjust lights based on available daylight

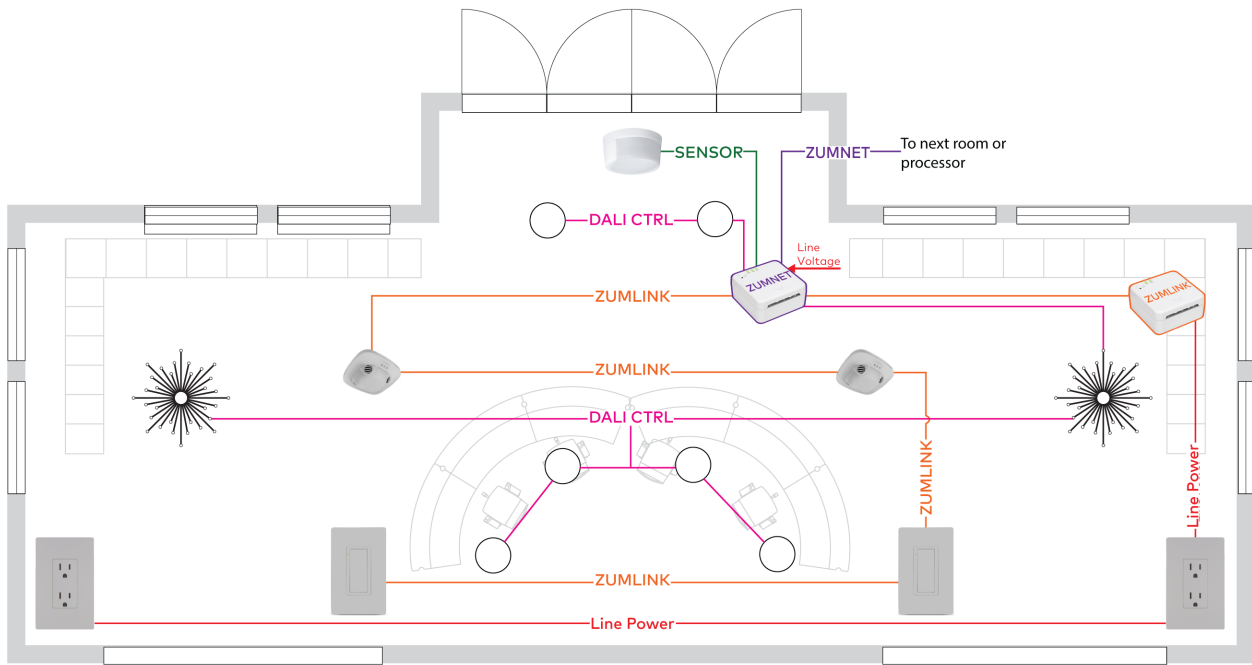
### Controlled Receptacles

130.5(d)  
Auto Off for receptacle power









### Demand Response

130.1(e), 110.12(c)  
Partial Off during demand response signal

# Zūm® Wired: DALI® Drivers



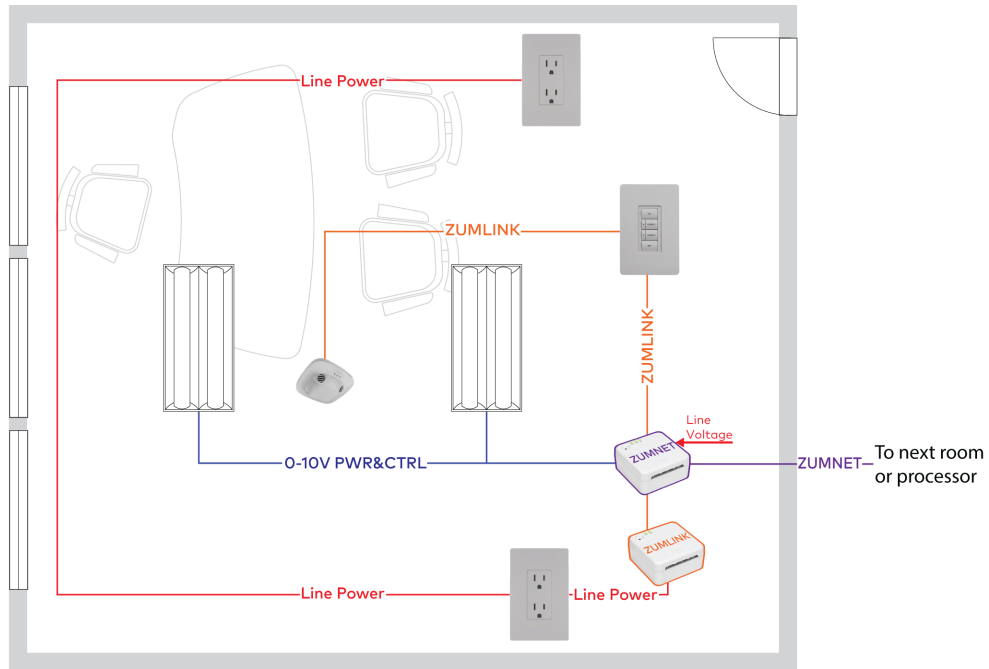
## Bill of Materials

Item	Product	Qty
	ZUMLINK-JBOX-20A-PLUG Zūm Link, Plug, 20A	1
	ZUMNET-JBOX-DALI Zūm Net, DALI	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	2
	ZUMLINK-DT-QUATTRO-DLS Zūm Link Presence Detector/ Closed-Loop Daylight Sensor	2
	GLA-LDL-PC-0-10 Open/Closed Loop Daylight Sensor	1
	Receptacle	2
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD

## Code

<b>Manual Control Device</b> 130.1(a), 130.1(b) Local manual switch, multi-level control
<b>Occupancy Sensor Full On</b> 130.1(c) 1 Full On during occupancy
<b>Occupancy Sensor Full Off</b> 130.1(c) 5, 130.2(a) Auto Off during vacancy
<b>Daylight Response</b> 130.1(d), 130.2(c) 1 Adjust lights based on available daylight
<b>Controlled Receptacles</b> 130.5(d) Auto Off for receptacle power
<b>Demand Response</b> 130.1(e), 110.12(c) Partial Off during demand response signal

# Zūm® Wired: 0 - 10V Drivers



## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Zūm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-JBOX-20A-PLUG Zūm Link, Plug, 20A	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	1
	ZUMLINK-DT-QUATTRO-DLS Zūm Link Presence Detector/ Closed-Loop Daylight Sensor	1
	Receptacle	2
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD

## Code

- Manual Control Device**  
130.1(a), 130.1(b)  
Local manual switch, multi-level control

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- Vacancy Sensor Manual On**  
130.1.5.B  
Physical control interface for occupant

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- Occupancy Sensor Full Off**  
130.1(c) 5, 130.2(a)  
Auto Off during vacancy

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- Daylight Response**  
130.1(d), 130.2(c) 1  
Adjust lights based on available daylight

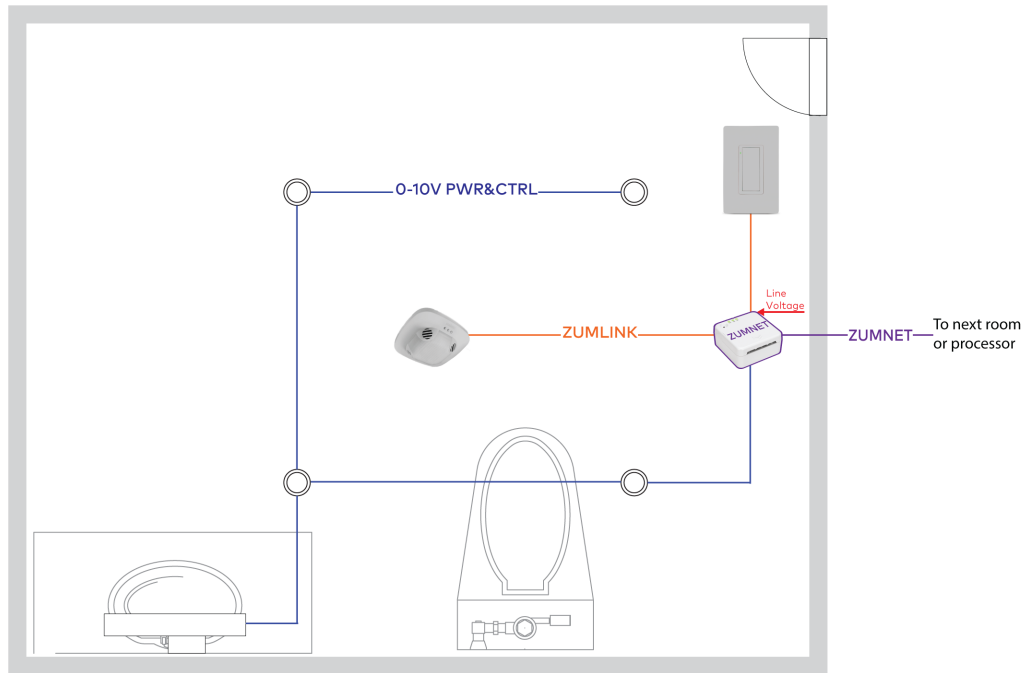
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- Controlled Receptacles**  
130.5(d)  
Auto Off for receptacle power





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- Demand Response**  
130.1(e), 110.12(c)  
Partial Off during demand response signal

# Zūm® Wired: 0 - 10V Drivers



## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Zūm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	1
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD

## Code

### Manual Control Device

130.1(a), 130.1(b)  
Local manual switch, multi-level control

### Occupancy Sensor Full On

130.1(c) 1  
Full On during occupancy

### Occupancy Sensor Full Off

130.1(c) 5, 130.2(a)  
Auto Off during vacancy

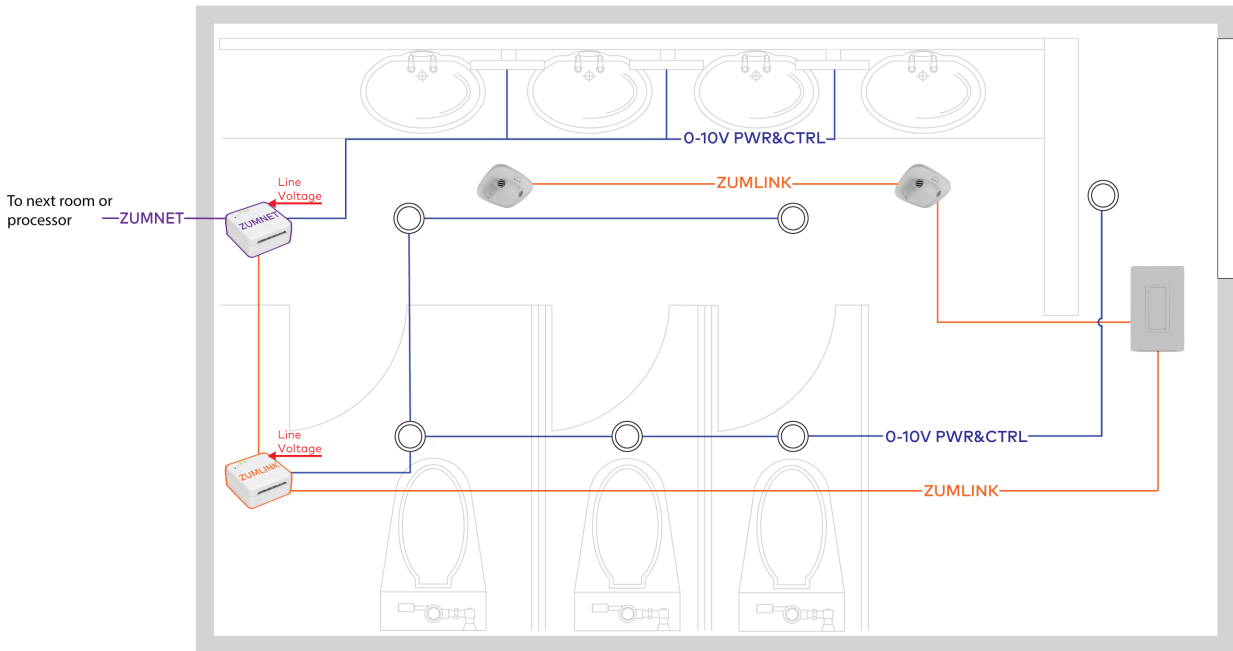
### Daylight Response

130.1(d), 130.2(c) 1  
Adjust lights based on available daylight







### Demand Response

130.1(e), 110.12(c)  
Partial Off during demand response signal

# Zūm® Wired: 0 - 10V Drivers



## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Zūm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-JBOX-16A-LV Zūm Link, Dimmer, 0-10V 16A	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	1
	ZUMLINK-DT-QUATTRO-DLS Zūm Link Presence Detector/ Closed-Loop Daylight Sensor	2
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD

## Code

### Manual Control Device

130.1(a), 130.1(b)  
Local manual switch, multi-level control

### Occupancy Sensor Full On

130.1(c) 1  
Full On during occupancy

### Occupancy Sensor Full Off

130.1(c) 5, 130.2(a)  
Auto Off during vacancy

### Daylight Response

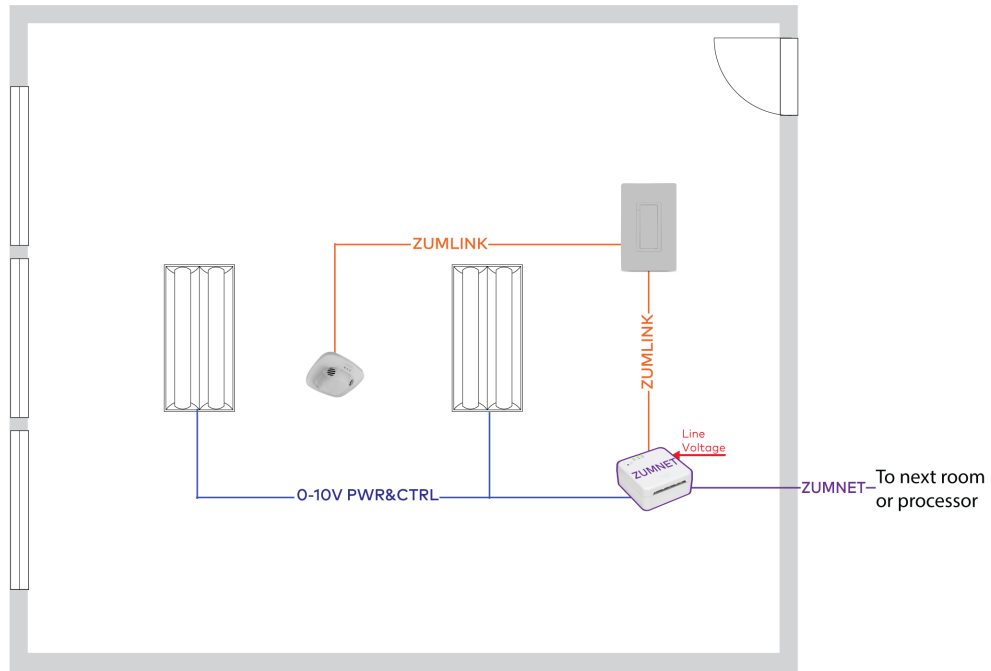
130.1(d), 130.2(c) 1  
Adjust lights based on available daylight

### Demand Response






130.1(e), 110.12(c)  
Partial Off during demand response signal



# Zūm® Wired: 0 - 10V Drivers



## Bill of Materials

Item	Product	Qty
	ZUMNET-JBOX-16A-LV Zūm Net, Dimmer, 0-10V, 16A	1
	ZUMLINK-KP Zūm Link Keypad, Manual Control	1
	ZUMLINK-DT-QUATTRO-DLS Zūm Link Presence Detector/ Closed-Loop Daylight Sensor	1
	CBL-CAT5E-ZUMLINK-P Zūm Link CAT5e, various lengths	TBD
	CBL-CAT5E-ZUMNET-P Zūm Net CAT5e, various lengths	TBD

## Code

- Manual Control Device**  
130.1(a), 130.1(b)  
Local manual switch, multi-level control

---

- Vacancy Sensor Manual On**  
130.1.5.B  
Physical control interface for occupant

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- Occupancy Sensor Full Off**  
130.1(c) 5, 130.2(a)  
Auto Off during vacancy

---

- Daylight Response**  
130.1(d), 130.2(c) 1  
Adjust lights based on available daylight

---

- Demand Response**  
130.1(e), 110.12(c)  
Partial Off during demand response signal

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**Contact Info**

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Name

Company

Address 1

Address 2

City, State, Zip

Phone

Email

Website

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**Project Notes**

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**Square Footage**

**Cost/Sq. Ft.**

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