

**STEINEL<sup>®</sup>**  
**PROFESSIONAL**

# Stand-Alone Control Solutions

## Code Compliance without Networked Controls

**PRESENTED BY SEAN LAFFERTY**

# All the Power – Half the Price

**STEINEL's robust controls allow for solutions at a fraction of the price of a room controller.**



**With our new SUPER DUTY power packs, DIM-24 and COM2 sensors, STEINEL provide solutions to the following code requirements and more:**

- Plug load control
- Multi-zone dimming
- Daylight harvesting
- Vacancy sensing
- Fail-safe operation
- Independent automatic HVAC control
- Force ON and OFF inputs for BMS integration



## Smart Remote

- Easy programming and calibration
- Profiles
- Extended sensor functionality
- iOS and Android



# COMMERCIAL OFFICE SPACE

# COMMERCIAL OFFICE SPACE: Open Office Areas

## Code Requirements




- Daylight responsive operation in daylighting zone
- Partial ON or manual ON
- Receptacle control

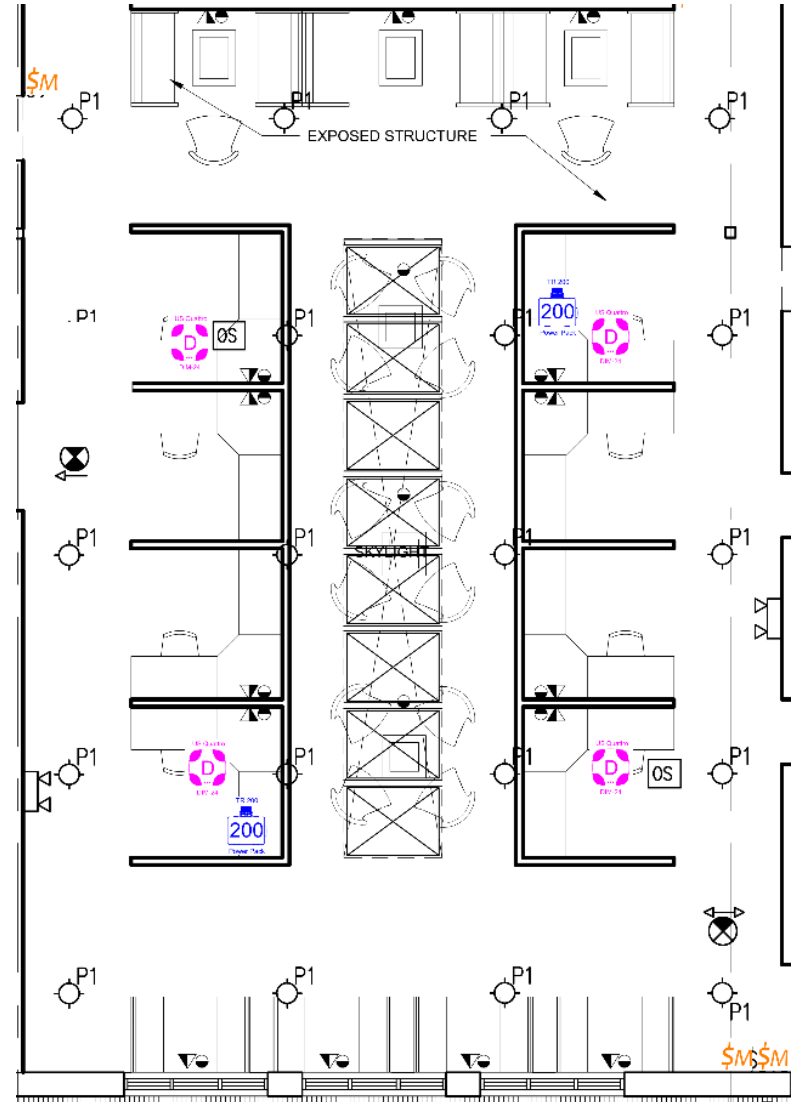
# Open Office Solution

## STEINEL Solution

- Occupancy sensor provides automatic all OFF.
- All sensors to be set to partial ON or manual ON to meet the code.
- Momentary switch is used to provide manual control of the lighting.
- Receptacle control is achieved by using a second power pack with a built-in timer.

This layout: \$800 / 3500 sq. ft.

Product	Description	
US Quattro DIM-24	Ultrasonic occupancy/vacancy sensor w/ 0-10V dimming	
TR 200	Heavy Duty Power Pack	
MCS-W	Momentary Switch	



# COMMERCIAL OFFICE SPACE: Small Office




## Code Requirements

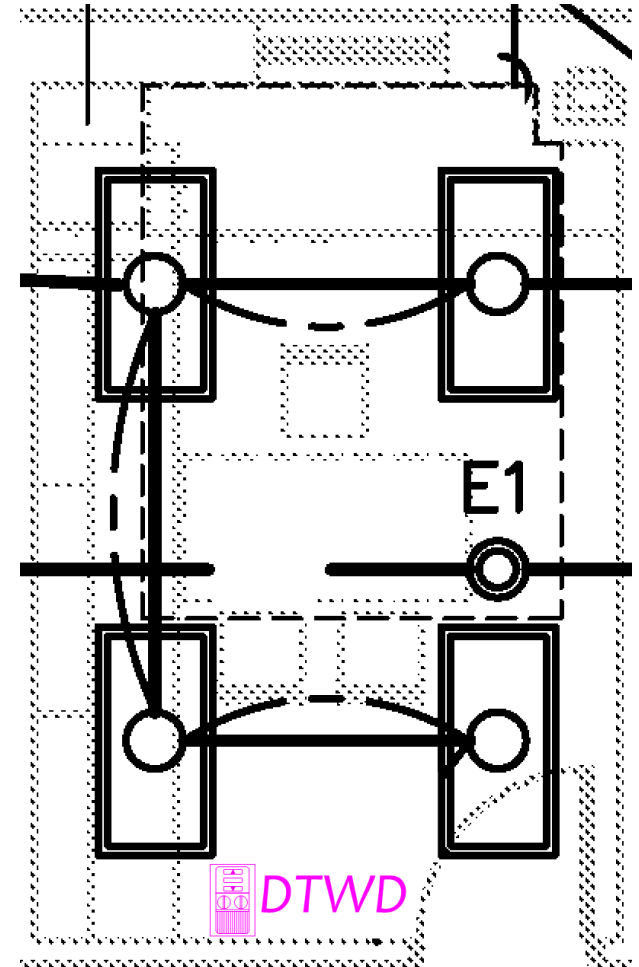
- Partial ON or Manual ON with 0-10V dimming

## STEINEL Solution

- Use of occupancy sensor provides automatic all OFF.
- All sensors to be set to partial ON or manual ON.
- Momentary switch is used to provide manual control of the lighting.

This layout: under \$100 / 250 sq.ft.

Product	Description	
DT WLS/VS DIM	Dual-tech occupancy/vacancy wall sensor with 0-10V dimming	





# COMMERCIAL OFFICE SPACE: Large Office



## Code Requirements

- Partial ON or Manual ON with 0-10V dimming
- Receptacle control






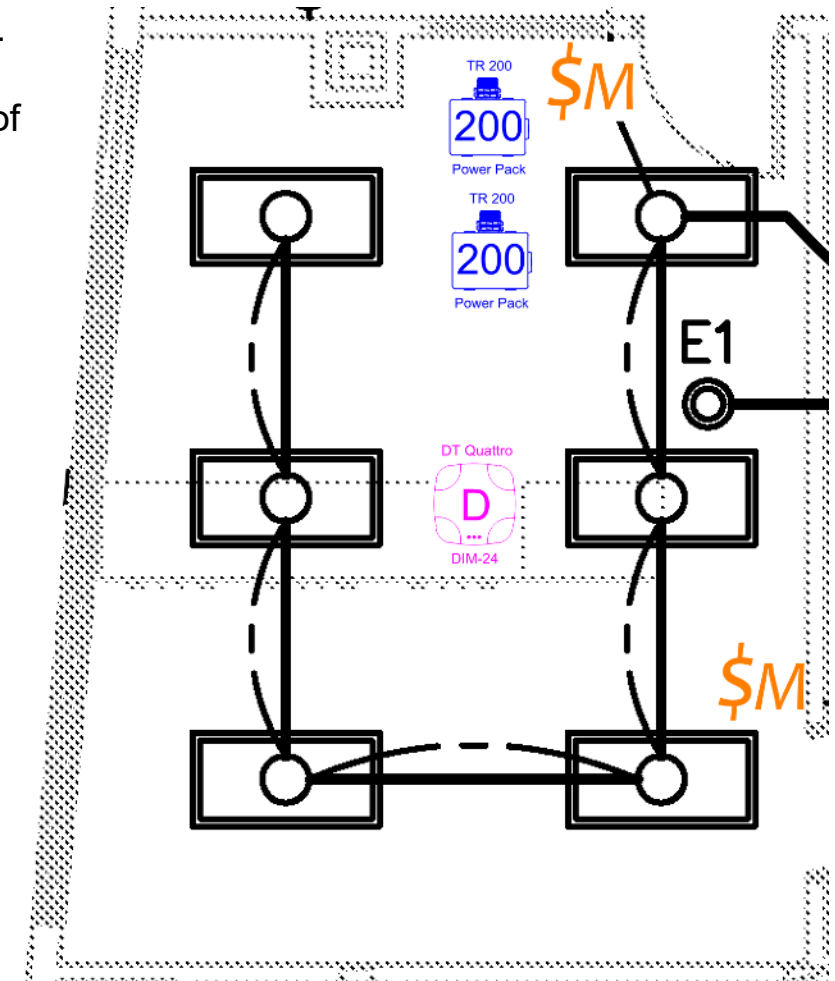
# Large Office Solution

## STEINEL Solution

- Use of occupancy sensor provides automatic all OFF.
- All sensors to be set to partial ON or manual ON.
- Momentary switch is used to provide manual control of the lighting.
- Receptacle control is achieved by using a second power pack with a built-in timer.

This layout: \$300 / 600 sq. ft.

Product	Description	
DT Quattro/CM DIM-24	Dual-tech occupancy/vacancy sensor w/ 0-10V dimming	
TR 200	Heavy Duty Power Pack	
MCS-W	Momentary Switch	



# COMMERCIAL OFFICE SPACE: Conference Room



## Code Requirements

- Partial ON or Manual ON with 0-10V dimming
- Receptacle control






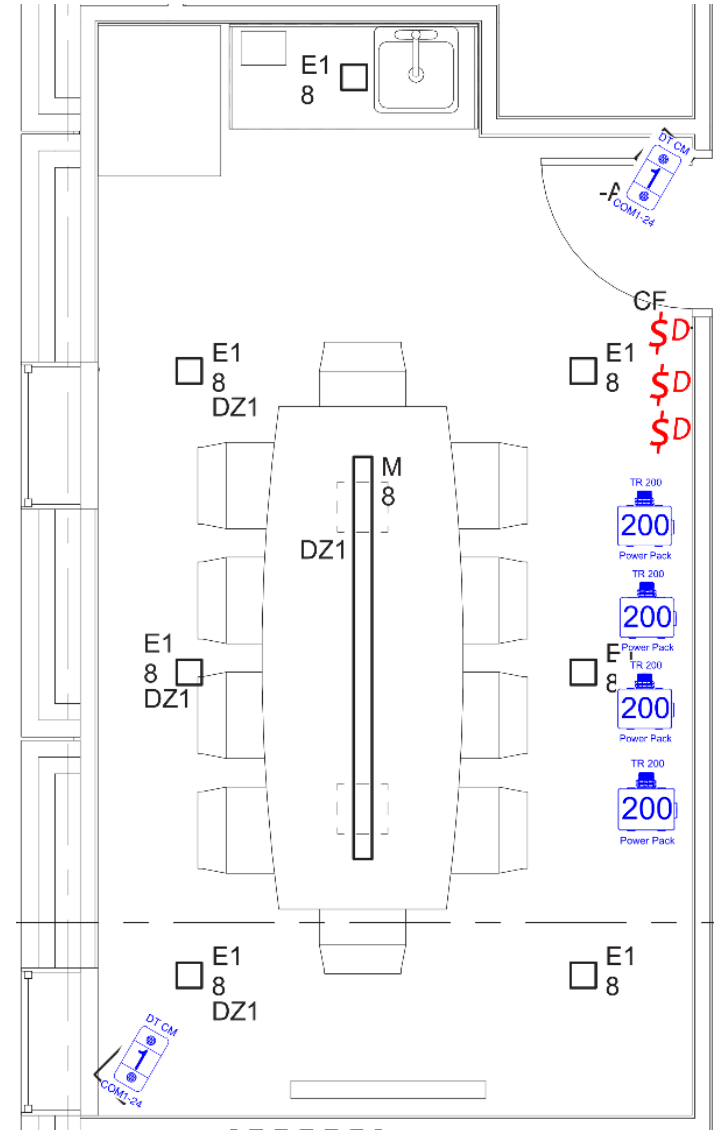
# Conference Room Solution

## STEINEL Solution

- Dualtech sensor mounted on the wall at or below the pendent mounted fixtures and in the corner near the same wall as the entrance so no motion is detected outside of the room.
- Use of occupancy sensor provides automatic all OFF.
- All sensors to be set to manual ON.
- Receptacle control is achieved by using a second power pack with a built-in timer.

This layout: \$600 / 1000 sq. ft.

Product	Description	
DT Quattro/CM DIM-24	Dual-tech occupancy/vacancy sensor w/ 0-10V dimming	
TR 200	Heavy Duty Power Pack	
ST IP710-LFZ	0-10V Slide Dimmer	



# COMMERCIAL OFFICE SPACE: Restroom



## Code Requirements

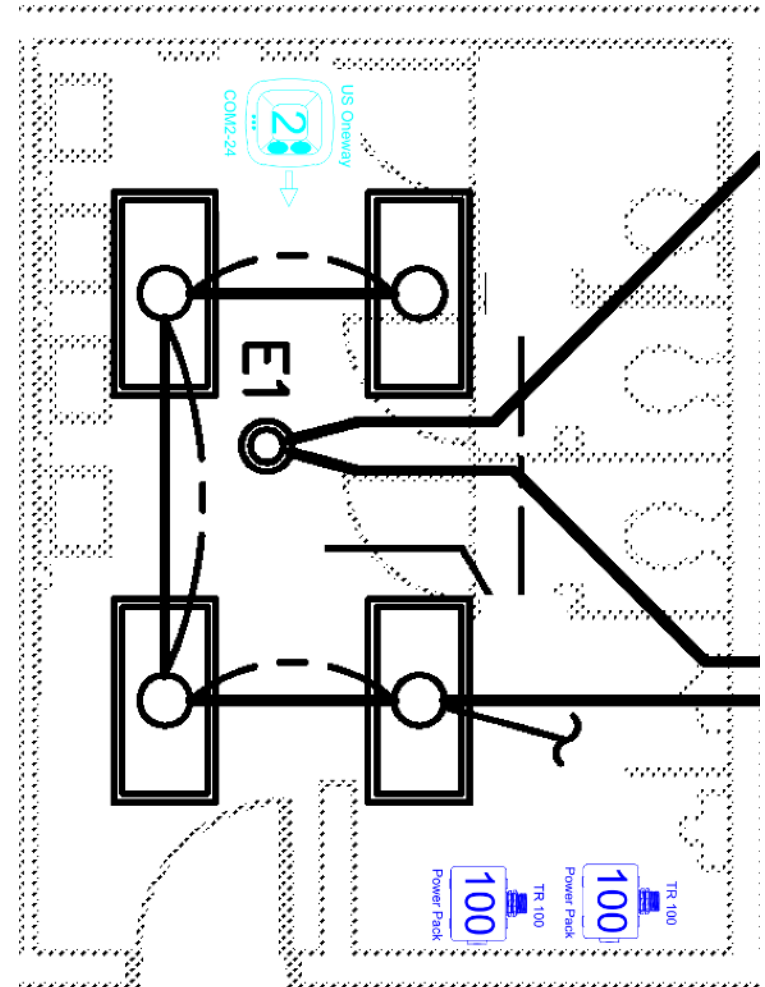
- Automatic ON/OFF of lighting and exhaust fan

## STEINEL Solution

- Ultrasonic sensor mounted on the restroom ceiling away from air duct
- Lighting automatically turns ON when the room is occupied and OFF when unoccupied
- The exhaust fan will also be turned off and on based on occupancy but will have an independent time delay allowing lighting and fan to be controlled separately

This layout: under \$200 / 300 sq. ft.

Product	Description	
US Oneway COM2-24	Ultrasonic occupancy sensor with HVAC output	
TR 100	Power Pack	





**EDUCATION**

# EDUCATION: Classroom



## Code Requirements

- Manual ON with 0-10V dimming control








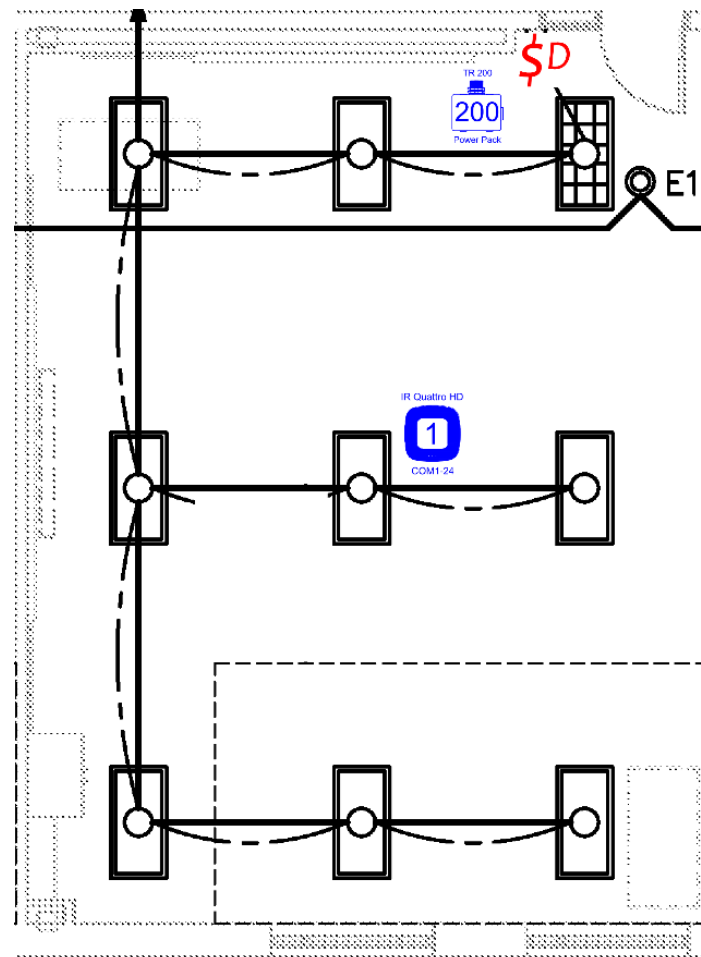
# Classroom Solution

## STEINEL Solution

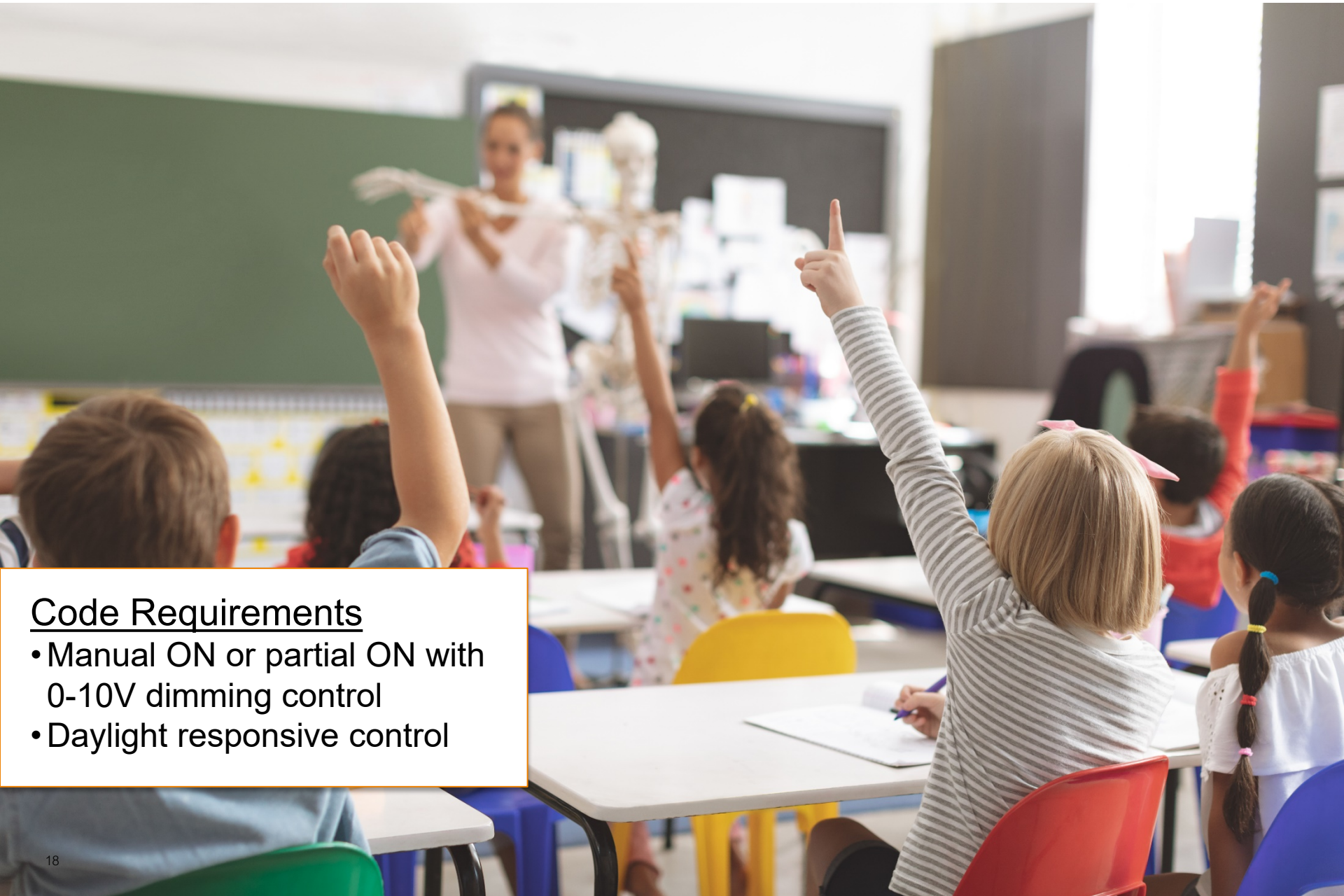
- Sensor turns off lighting when there is no occupancy.
- Minor motion detection with a square coverage pattern
- 0-10V slide dimmer is used to provide manual control of the lighting.

This layout: \$250 / 900 sq. ft.

Product	Description	
IR Quattro HD COM1-24	PIR occupancy/vacancy sensor	
TR 200	Heavy Duty Power Pack	
ST IP710-LFZ	0-10V Slide Dimmer	



# EDUCATION: Classroom with Daylighting



## Code Requirements

- Manual ON or partial ON with 0-10V dimming control
- Daylight responsive control






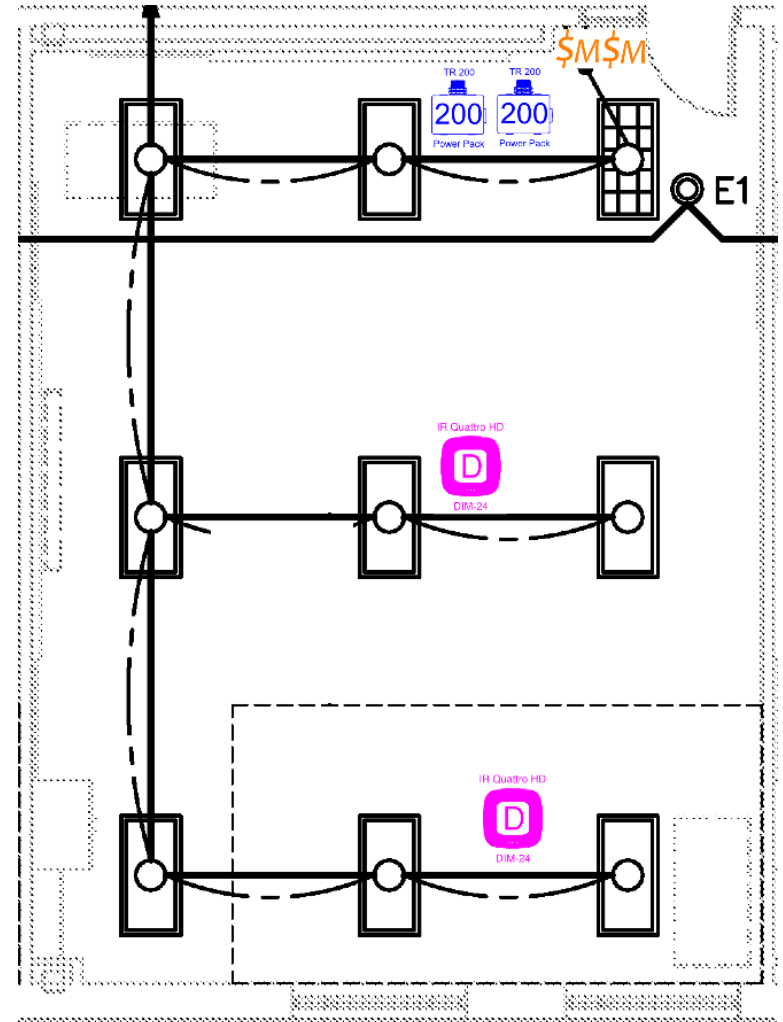
# Classroom with Daylighting Solution

## STEINEL Solution

- Use of occupancy sensor provides automatic all OFF.
- All sensors to be set to partial ON or manual ON.
- Momentary switch is used to provide manual control of the lighting.
- Daylight responsive control for daylighting zones with more than 150W lighting load through use of built-in photo sensor and 0-10V output.

This layout: \$450 / 900 sq. ft.

Product	Description	
IR Quattro HD DIM-24	PIR occupancy/vacancy sensor w/ 0-10v dimming	
TR 200	Heavy Duty Power Pack	
MCS-W	Momentary Switch	



# EDUCATION: Corridor

## Code Requirements




- Auto ON to 100%, Partial OFF to 50%
- Fail-safe operation

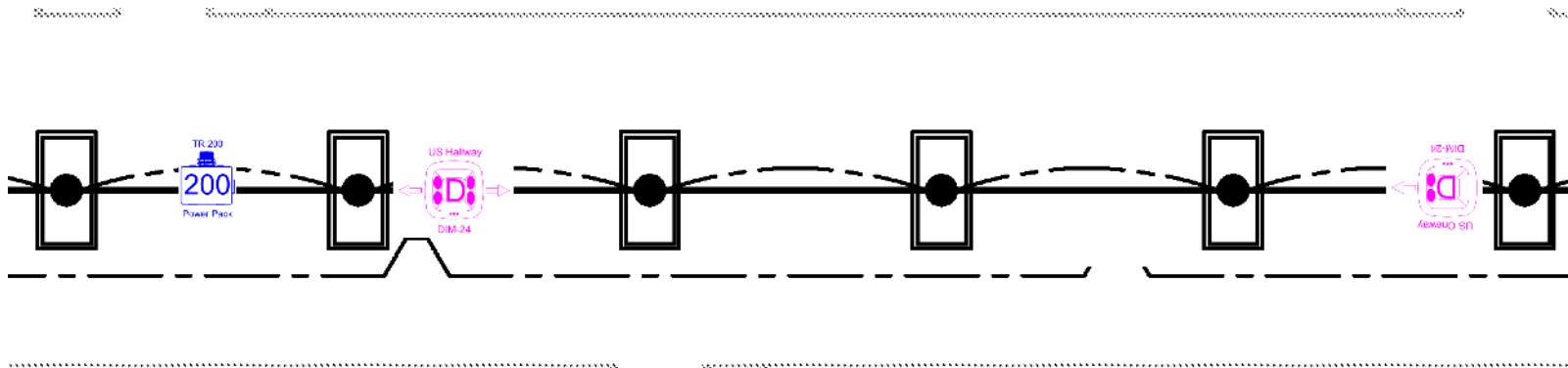
# Corridor Solution

## STEINEL Solution

- Use of occupancy sensor provides partial OFF to 50%.
- All sensors to be set to automatic ON.
- Power pack with mechanical latch to provide fail-safe operation.

This layout: \$300 / 100 ft.

Product	Description	
US Hallway DIM-24	Ultrasonic occupancy sensor w/ 0-10v dimming	
US Oneway DIM-24	Ultrasonic occupancy sensor w/ 0-10v dimming	
TR 200	Heavy Duty Power Pack	



# EDUCATION: Gymnasium

## Code Requirements

- Automatic ON/OFF of lighting






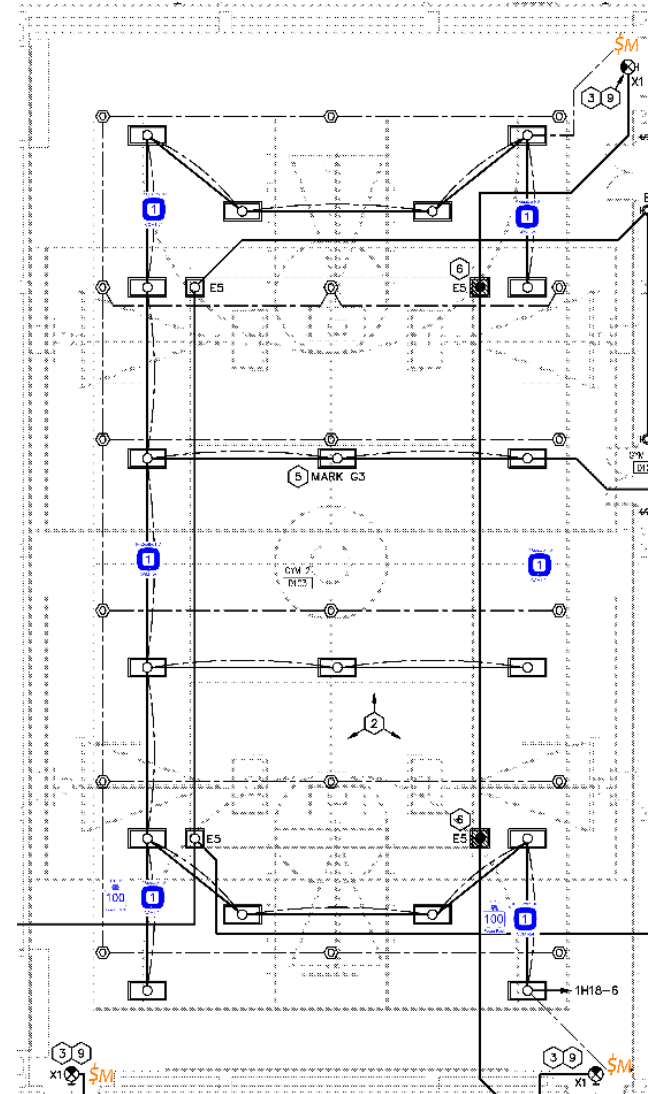
# Gymnasium Solution

## STEINEL Solution

- Use of occupancy sensor provides automatic all OFF.
- All sensors to be set to automatic ON.
- Momentary switch is used to provide manual control of the lighting.
- Wire guard cage to protect the sensor.

This layout: \$1100 / 24,000 sq. ft.

Product	Description	
IR Quattro HD COM1-24	PIR HD occupancy sensor	
TR 100	Power Pack	
MCS-W	Momentary Switch	





# INDUSTRIAL SPACES



# INDUSTRIAL SPACES: Self-Storage Center

## Code Requirements

- Automatic ON/OFF of lighting.
- Each aisleway shall be controlled independently.







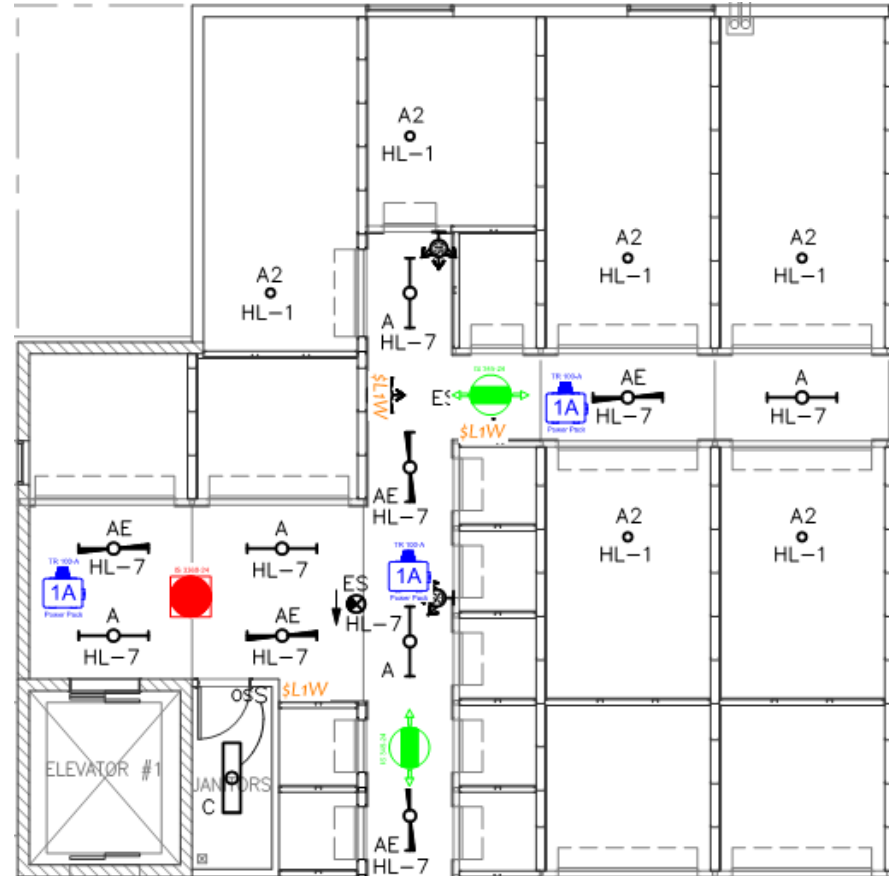
# Self-Storage Center Solution

## STEINEL Solution

- Use of occupancy sensor provides automatic all OFF.
- All sensors to be set to automatic ON.
- Detection should be limited to each aisle and movement in cross aisles should not turn the lights ON.

This layout: \$450 / 200 sq. ft + 45 ft. aisleway

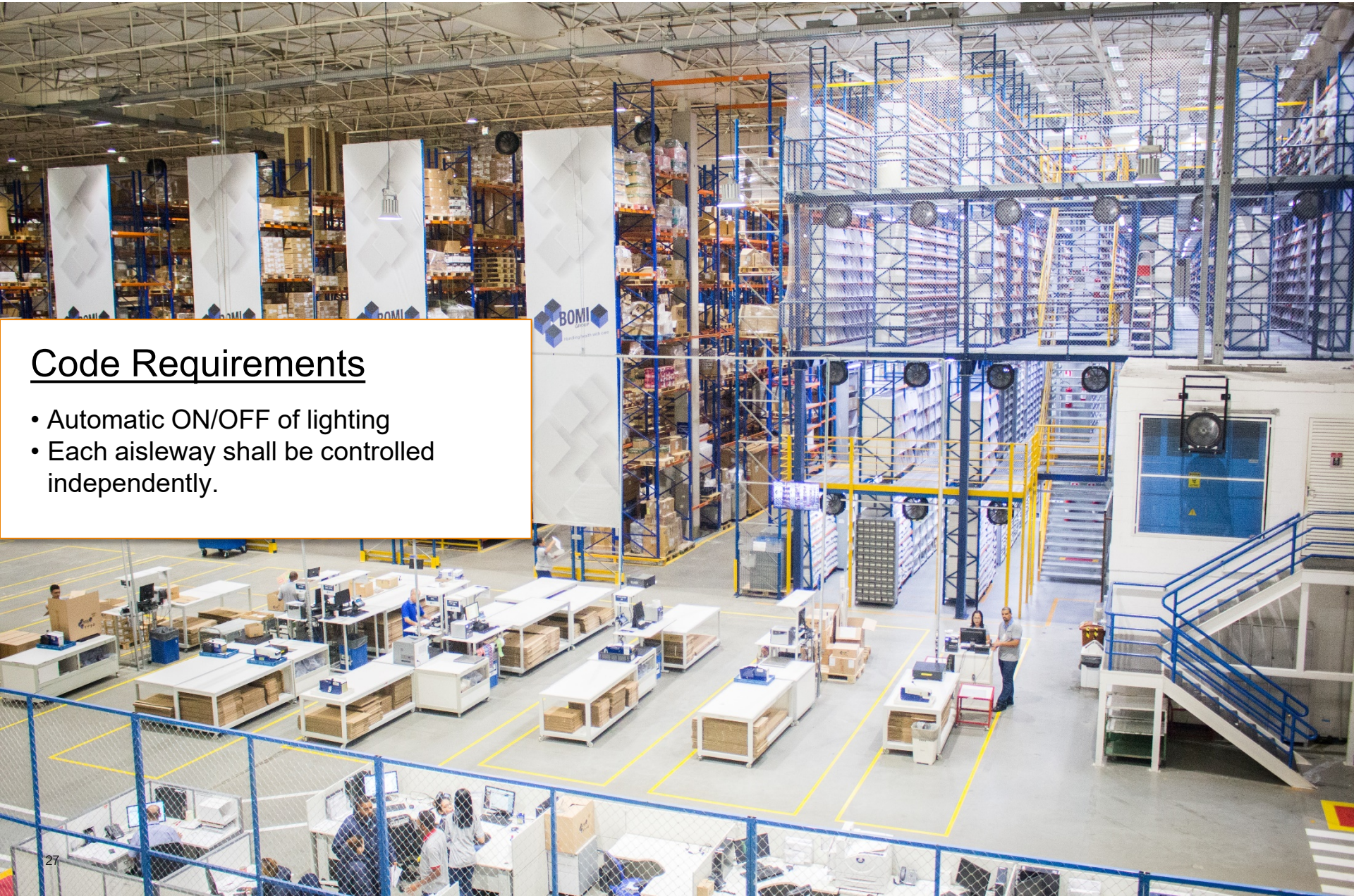
Product	Description	
IS 345-24	PIR occupancy sensor (Hallway type)	
IS 3360-24	PIR occupancy sensor (360 degrees coverage)	
TR 100-A	Power pack	
MCS-W	1 button momentary switch	



# INDUSTRIAL SPACES: Warehouse

## Code Requirements



- Automatic ON/OFF of lighting
- Each aisleway shall be controlled independently.

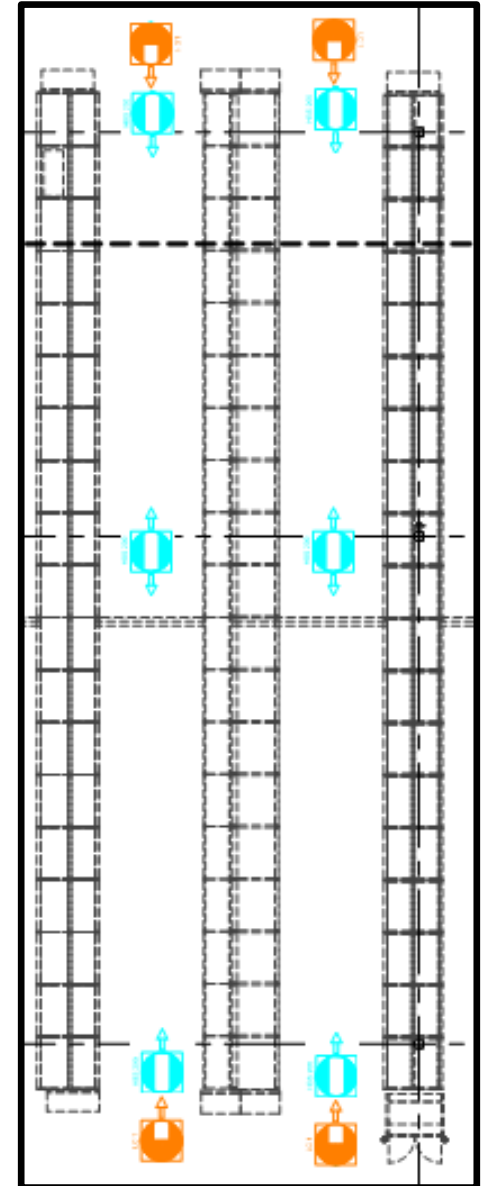


## STEINEL Solution

- Use of occupancy sensor provides automatic all OFF.
- All sensors to be set to automatic ON.
- Detection should be limited to each aisle and movement in cross aisles should not turn the lights ON.
- Easy to install lens cover LC1 limits detection area of HBS 200 sensors to each aisle.

This layout: \$200 / 2 x 200 ft. aisle aisleway

Product	Description	
HBS 200	PIR aisle occupancy sensor	
LC1	Aisle-starter Lens Cover	



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## Smart Remote

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- Profiles
- Extended sensor functionality
- iOS and Android

# STEINEL Lighting Controls

## All the Power – Half the Price

STEINEL is your partner for cost-effective, code-compliant projects:

**Questions about our solutions?**

[tech@steinel.net](mailto:tech@steinel.net)

888.298.8298

**Need layouts for your project?**

Contact our tech team or your Regional Sales Manager.

**Need to connect with our sales team?**

[sales@steinel.net](mailto:sales@steinel.net)

800.852.4343

