steinel

STEINEL: The inventors' company

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We think outside the box and

Scrutinize things that are taken for granted

Providing **value-added features and functions** without the additional cost.

With technology invention in our veins, we think **without restrictions** and turn discoveries into **intelligent products** that meet the most exacting of demands.

Digital Done Better:
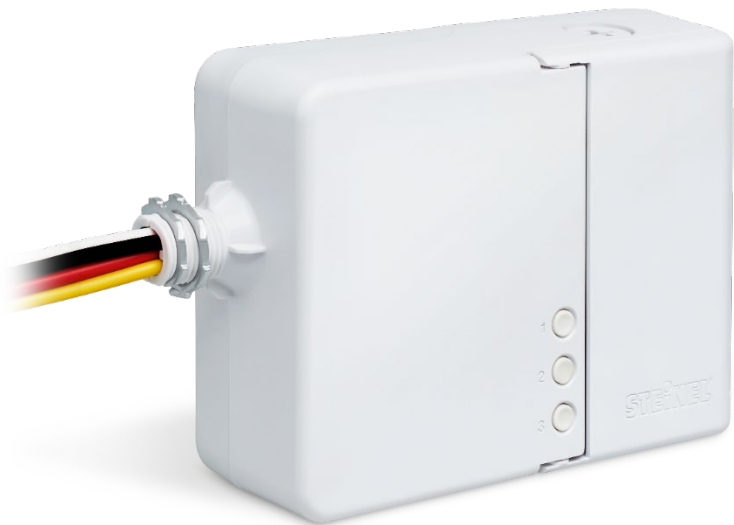
Smarter Solution

No Front End Needed

Easy to Install

High Value

Made by STEINEL.
Made in Europe.

STEINEL Digital Control Solution™ (DCS™)
Easy to Install. Easy to Program

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DCS answers the demand for a **COST-EFFECTIVE** room controller that **MAXIMIZES** energy savings.

Everything you need, code-compliant out of the box.

- Digital bus for sensors, switches, photo cells
- Wireless programming
- Predefined (out of the box) & custom use case generation
- Preset or custom scenes
- 3 independent 20A relays
- Current monitoring per relay
- 3 independent 0-10v dimming zones
- Receptacle control
- Multi-zone daylighting
- Min. & max. dimming levels
- Hold off / Force off photo sensor functions
- Partial on & off
- Demand response
- Astronomic and time clock functions
- Wireless BLE mesh interconnectivity
- BMS integration via BACnet, available through the **DCS Connect** model

STEINEL Digital Control Solution
Easy to Install.

1. Line voltage wires
2. Low voltage door latch
3. Test buttons
4. Low voltage terminals
5. ½" threaded nipple
6. Two lock nuts
7. Led
8. Reset button
9. RJ45 BACnet port
10. Low voltage wires
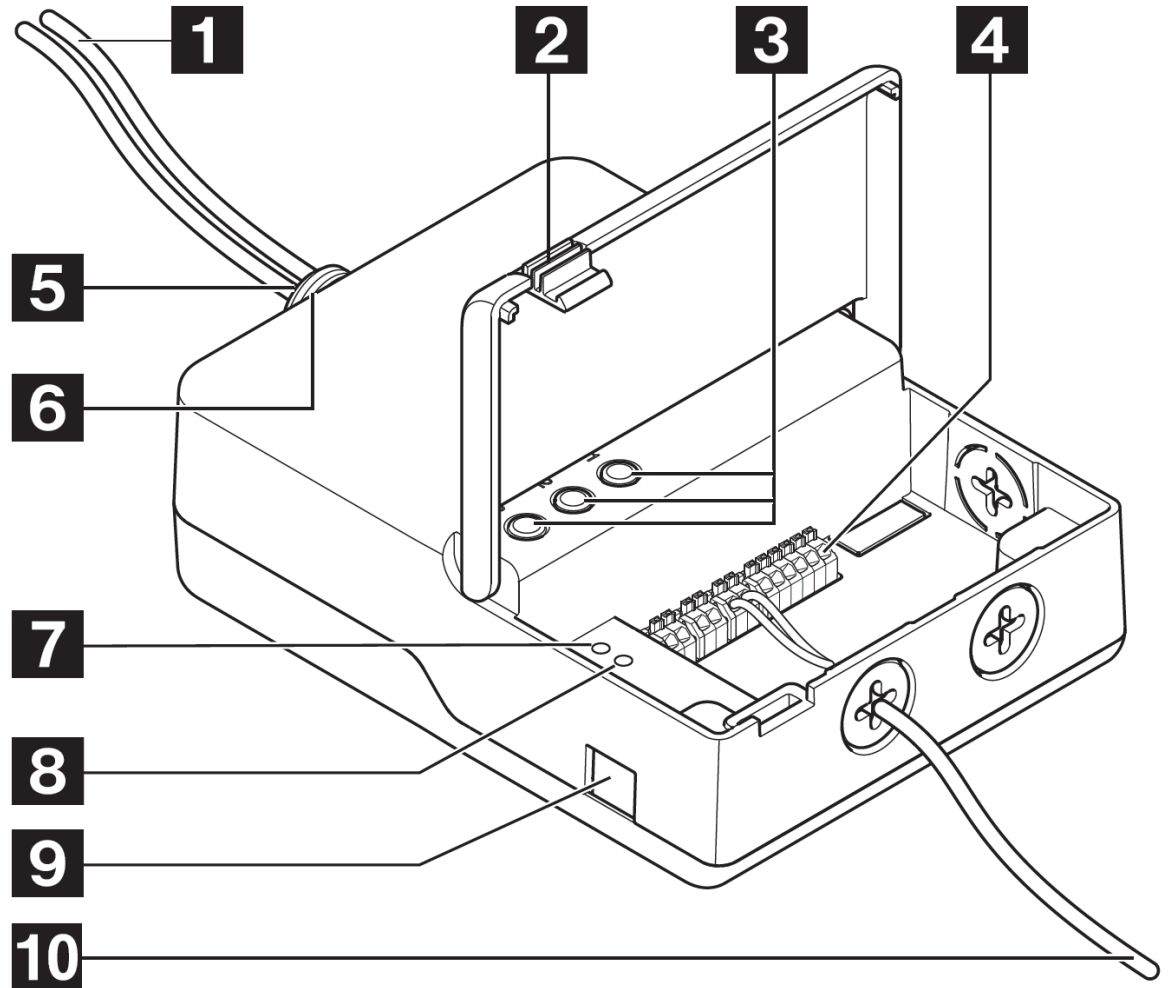
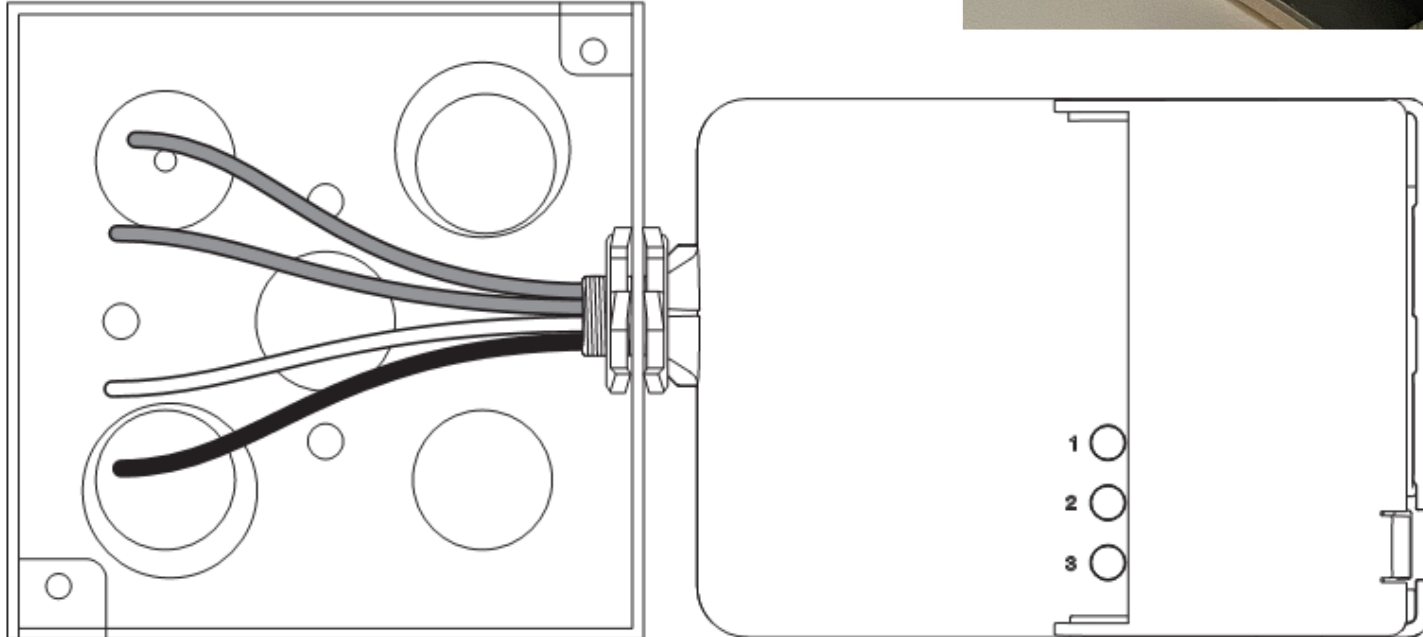# STEINEL Digital Control Solution
Easy to Install.

Method of mounting CONTROL
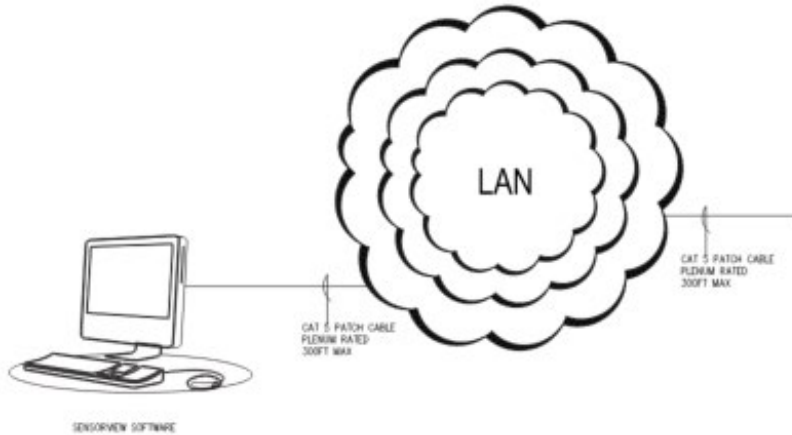- The DCS Digital Control Solution mount to a junction box with 1/2 inch knockout.

Mounting instructions
- Remove the top lock nut from the 1/2" chase nipple.
- Place line voltage wires and 1/2" chase nipple through 1/2" knockout.
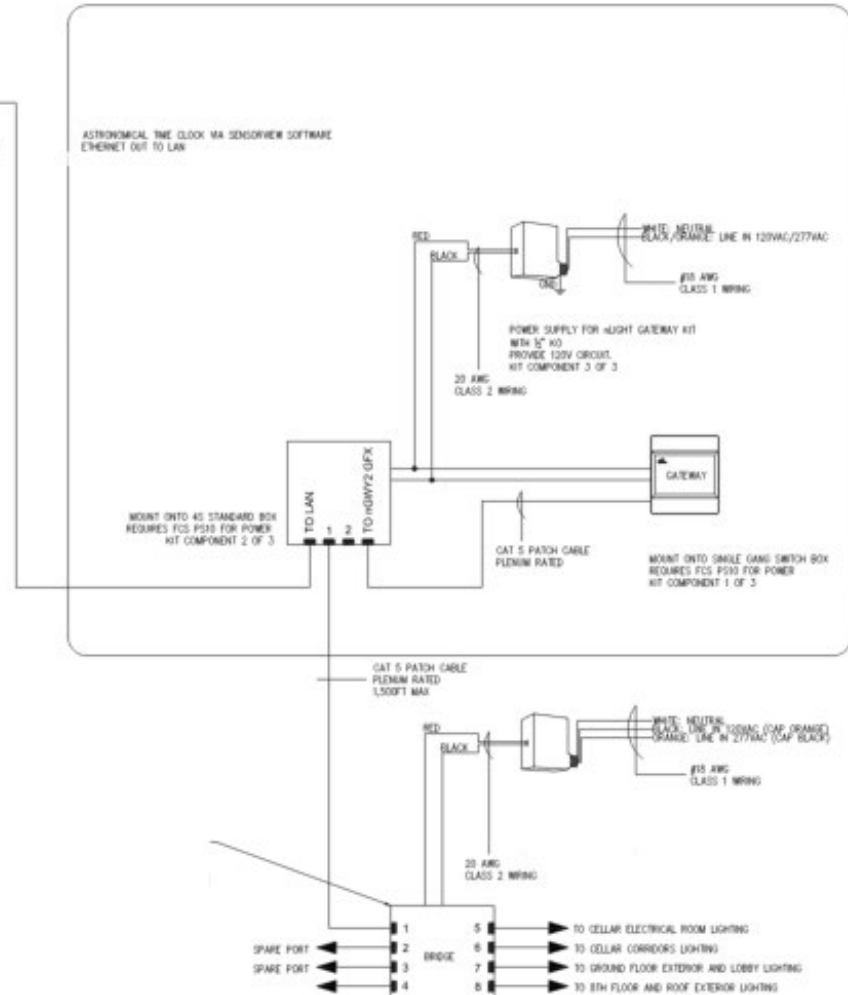- Reinstall the lock nut and tighten.

ALL OF THIS:

1. Time Control / Scheduling via Connection to Front End server
2. Interconnectivity via network bridges to power packs
3. Sensors and switch control via cat cable from power packs / room controllers.
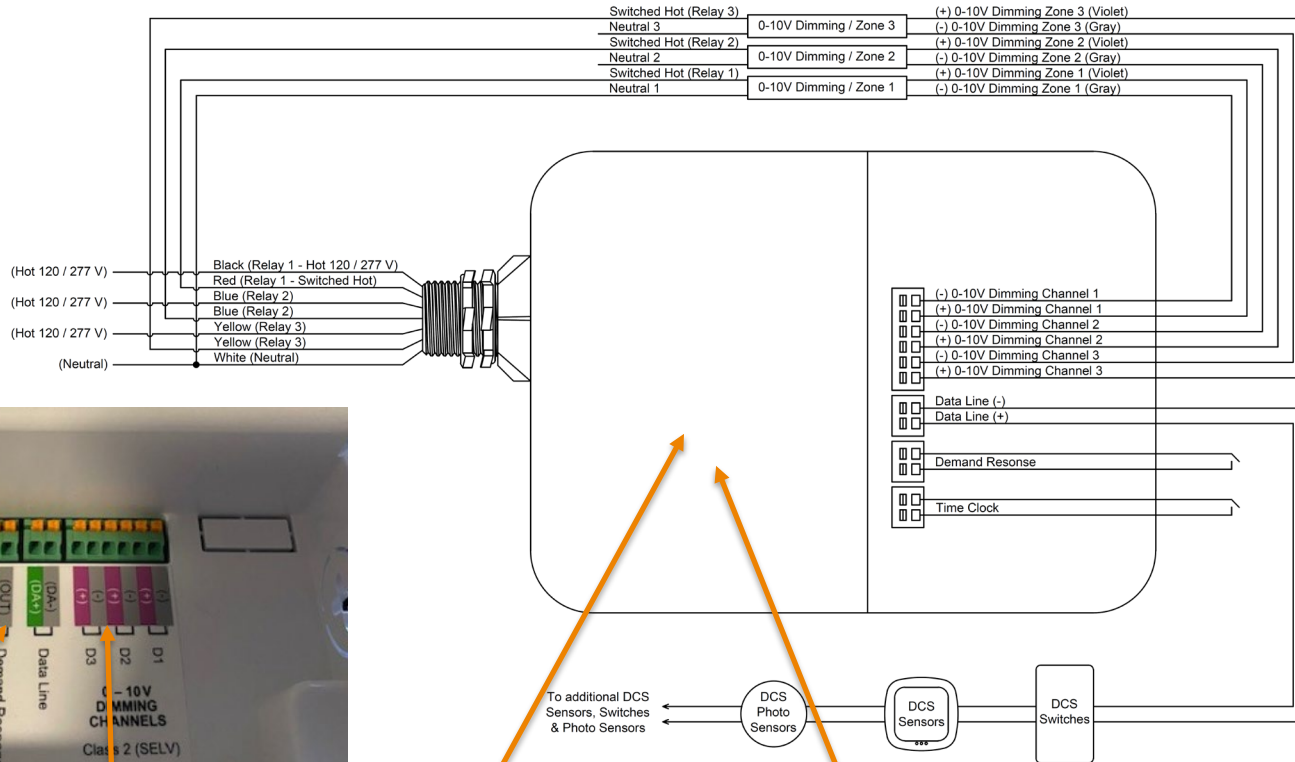4. Long Commissioning lead times, techs required to come to site.

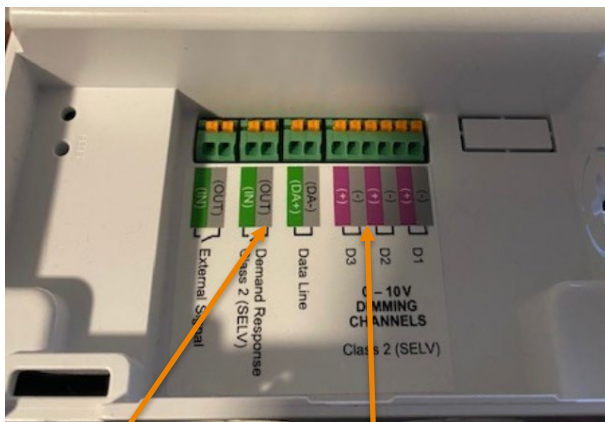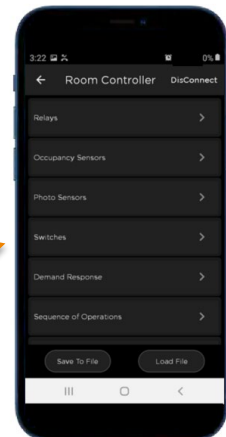# STEINEL Digital Control Solution
Simplicity of Wiring

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TURNS IN TO THIS…

Switched Hot (Relay 3)	
Neutral 3	0-10V Dimming / Zone 3
Switched Hot (Relay 2)	
Neutral 2	0-10V Dimming / Zone 2
Switched Hot (Relay 1)	
Neutral 1	0-10V Dimming / Zone 1

(+) 0-10V Dimming Zone 3 (Violet)
(-) 0-10V Dimming Zone 3 (Gray)
(+) 0-10V Dimming Zone 2 (Violet)
(-) 0-10V Dimming Zone 2 (Gray)
(+) 0-10V Dimming Zone 1 (Violet)
(-) 0-10V Dimming Zone 1 (Gray)

Polarity Insensitive 18/2 wire

(Hot 120 / 277 V) — Black (Relay 1 - Hot 120 / 277 V)
Red (Relay 1 - Switched Hot)
(Hot 120 / 277 V) — Blue (Relay 2)
Blue (Relay 2)
(Hot 120 / 277 V) — Yellow (Relay 3)
Yellow (Relay 3)
(Neutral) — White (Neutral)

(-) 0-10V Dimming Channel 1
(+) 0-10V Dimming Channel 1
(-) 0-10V Dimming Channel 2
(+) 0-10V Dimming Channel 2
(-) 0-10V Dimming Channel 3
(+) 0-10V Dimming Channel 3

Data Line (-)
Data Line (+)

Demand Resonse

Time Clock

Linear Wiring Topology

To additional DCS Sensors, Switches & Photo Sensors

DCS Photo Sensors

DCS Sensors

DCS Switches

Easy Stab in Terminals

Low Voltage separate from Line Voltage

Internal / Astronomic Timeclock built in

BLE MESH INTERCONNECTIVITY

3:22 ⊠ ☼   Room Controller DisConnect
Relays
Occupancy Sensors
Photo Sensors
Switches
Demand Response
Sequence of Operations
Save To File   Load File

Commissioning via Free Bluetooth APP

STEINEL Digital Control Solution
Best-Selling Control Pro Series: Now in New Digital Sensors
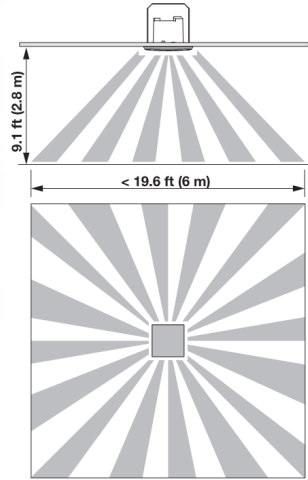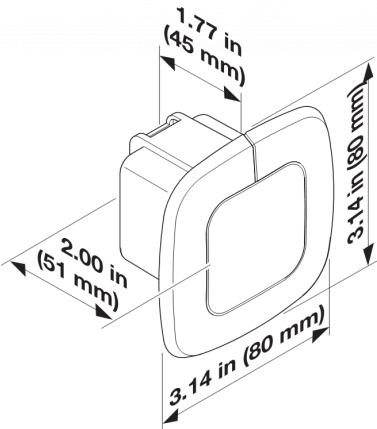
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	IR Quattro DCS	1760 switching zones Square coverage pattern Integrated photo cell for daylight harvesting
	IR Quattro HD DCS	4800 switching zones Square coverage pattern Integrated photo cell for daylight harvesting
	US Quattro DCS	Omnidirectional ultrasonic (40 kHz) presence detection Integrated photo cell for daylight harvesting IQ Mode dynamically adjusts the 'ON' time delay
	US Oneway DCS	Unidirectional ultrasonic (40 kHz) presence detection Integrated photo cell for daylight harvesting IQ Mode dynamically adjusts the 'ON' time delay
	US Hallway DCS	Bidirectional ultrasonic (40 kHz) presence detection Integrated photo cell for daylight harvesting IQ Mode dynamically adjusts the 'ON' time delay
	DT Quattro DCS	PIR & ultrasonic (40 kHz) presence detection Integrated photo cell for daylight harvesting IQ Mode dynamically adjusts the 'ON' time delay

STEINEL Digital Control Solution
## IR Quattro SLIM and Micro New Digital Sensors

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IR QUATTRO SLIM

9.1 ft (2.8 m)

< 19.6 ft (6 m)

1.77 in (45 mm)

3.14 in (80 mm)

2.00 in (51 mm)

3.14 in (80 mm)

IR QUATTRO MICRO

2.79 in (71 mm)

ø 1.69 in (43 mm)

9.1 ft (2.8 m)

~19.6 ft (6 m)

- Passive infrared presence detector
- 408 switching zones
- 6 mm low profile
- Flat lens
- Square coverage pattern
- Wireless commissioning through DCS app
- 13 x 13 ft. Presence Detection
- 19 x 19 ft. Tangential Detection
- 1-100 fc.
- 30 sec. to 30 min. time delay
- IP 20 Rated
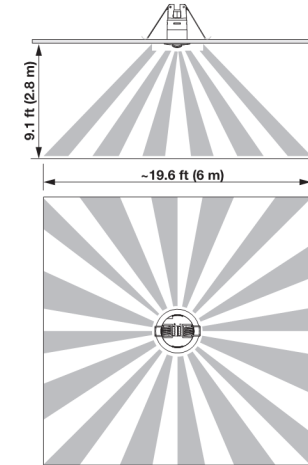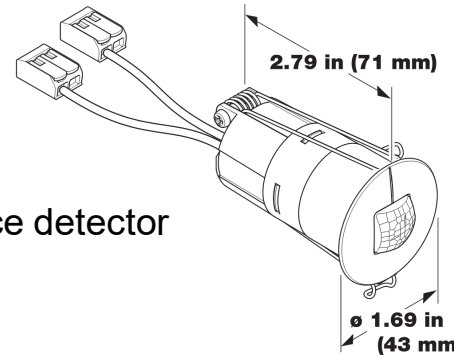
- Passive infrared presence detector
- 168 switching zones
- Micro-precision lens measures just 15 x 15 mm
- Square coverage pattern
- Wireless commissioning through DCS app
- Spring clip mounting
- 13 x 13 ft Presence Detection
- 19 x 19 ft. Tangential Detection
- 1-100 fc.
- 30 sec. to 30 min. time delay
- IP 65 Rated

STEINEL Digital Control Solution
PS DCS New Digital Sensors
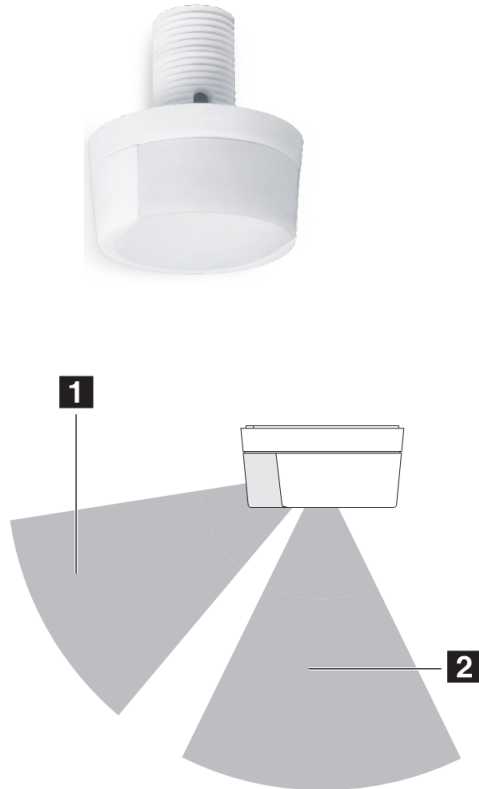
1 OL: Open Loop Control
2 CL: Closed Loop Control

- Two lenses and two photoelectric diodes to allow for both open & closed loop functionality
- Digital light level range selection via smart phone or tablet OL: 3 – 6,000 fc CL: 3 – 300 fc
- Automatic calibration that takes into consideration the unique curve of the fixtures being used in the daylighting zone
- Wireless configuration via Steinel App
- Mounts via screws, double sided tape or ½" chase nipple and locknut
- Polarity insensitive 2 wire bus
- Up to 3 daylight zones per sensor when used in open loop function
- Multiple PS DCS can be connected on the data line and then assigned to individual zones
- Wireless assignment to multiple DCS controllers via BLE group assignments

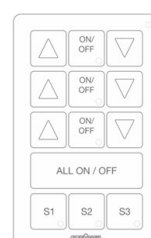# STEINEL Digital Control Solution
NEW Digital DCS Switches

SS2 DCS

NF1 DCS

DS1 DCS

SS6 DCS

NF3 DCS

DS3 DCS

DS-SS3 DCS

SS4 DCS

NF2 DCS
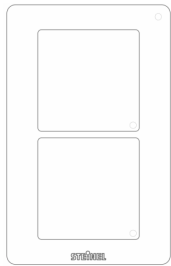
DS2 DCS
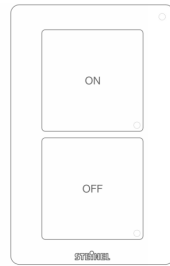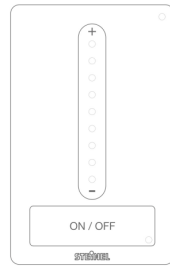
10 NEW Digital Switches:

- 2 button scene switch (SS2)
- 4 button scene switch (SS4)
- 6 button scene switch (SS6)
- 1 zone dimming switch (DS1)
- 2 zone dimming switch (DS2)
- 3 zone dimming switch (DS3)
- Multi switch with 3 zone dimming, 3 button scene and master on/off (DS-SS3)
- 1 zone 2 button On/Off switch (NF1)
- 2 zone 4 button On/Off switch (NF2)
- 3 zone 6 button On/Off switch (NF3)
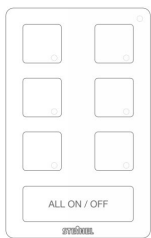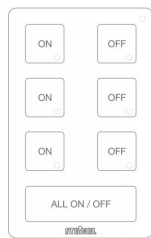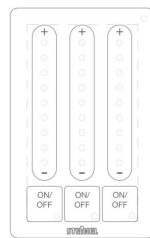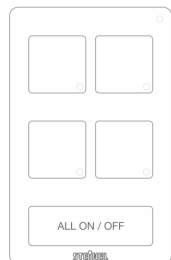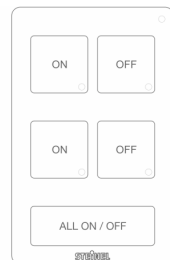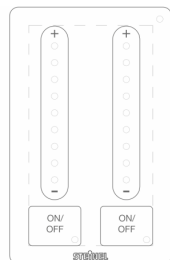
11

STEINEL Digital Control Solution
NEW Digital DCS Switches

SS2 DCS   NF1 DCS   DS1 DCS

SS6 DCS   NF3 DCS   DS3 DCS   DS-SS3 DCS
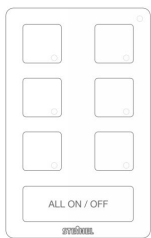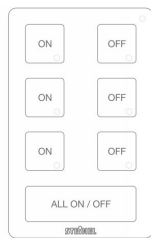
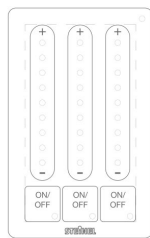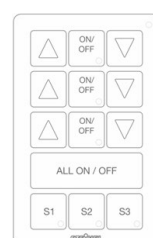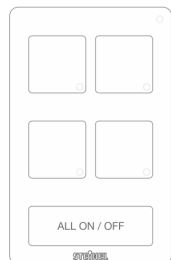SS4 DCS   NF2 DCS   DS2 DCS
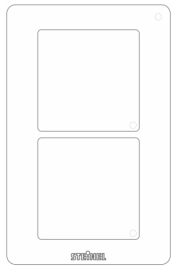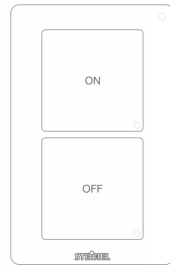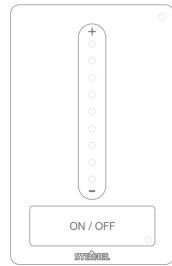
10 NEW Digital Switches:

- Touch sensitive
- Glass interface (white & black)
- Glass touch screen programmable
- Polarity insensitive 2 wire bus
- Switches are customizable with an 8-week lead time
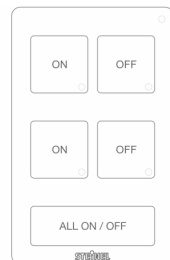- Pictured switches are in stock

STEINEL Digital Control Solution
Easy to Install.

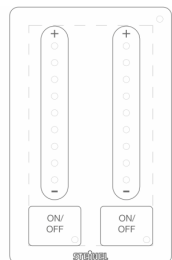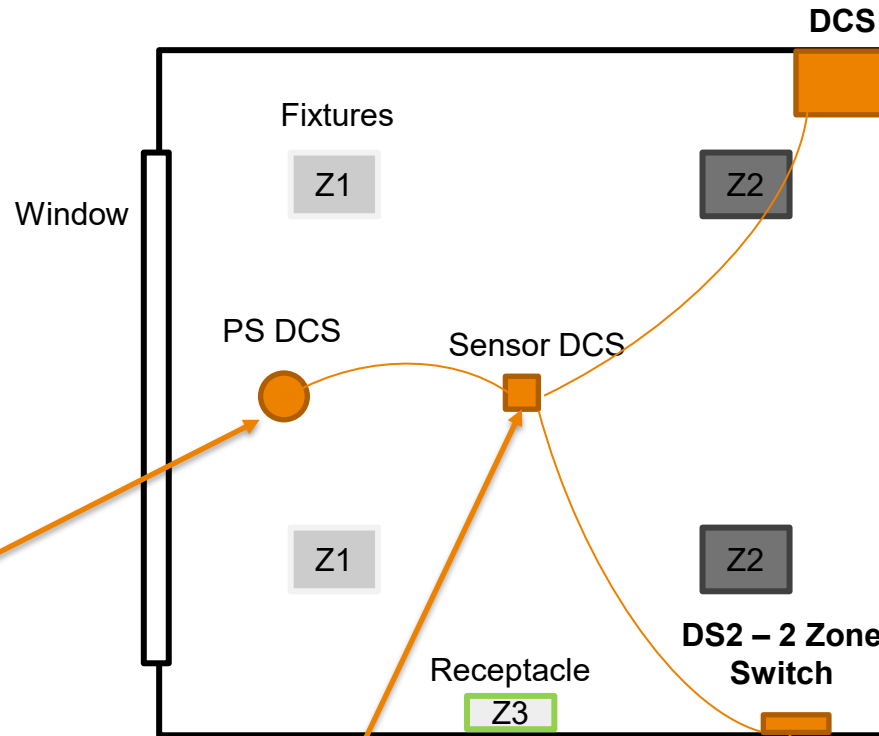**Assigned to Relay 1**
Sensor Settings:
- Open Loop Mode
- Automatic daylighting begins after 1 minute and assigns between 30 50 fc at desk level.
- Hold OFF active

Assigned to all Relays
Sensor settings:
- Time Delay: 20 min
- Sensitivity: Maximum (available only for --US and DT sensors)
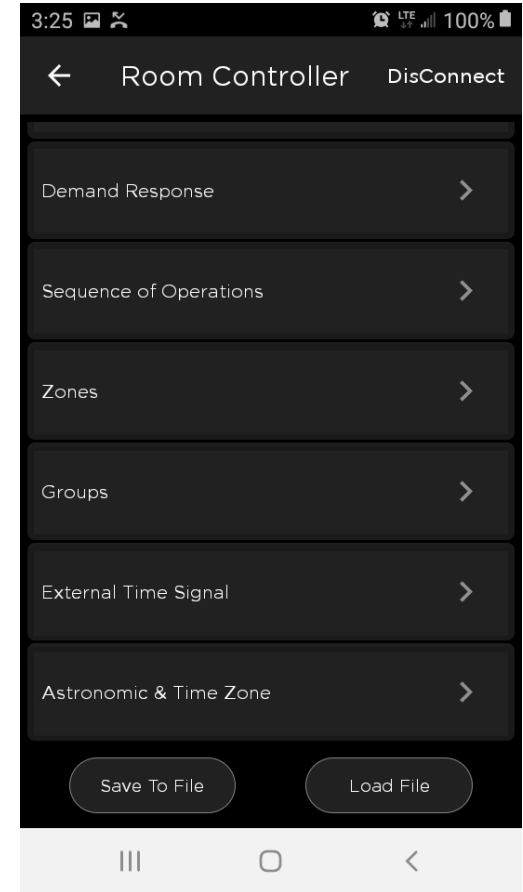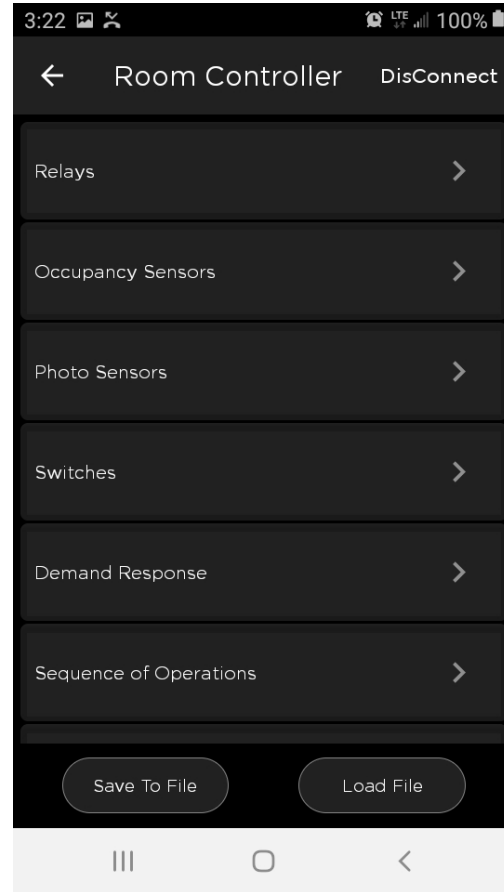- Partial ON in 50 % all loads

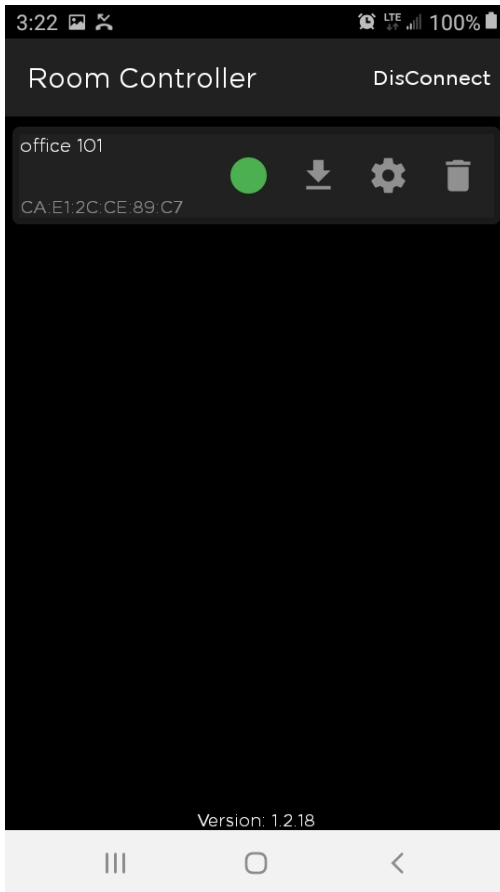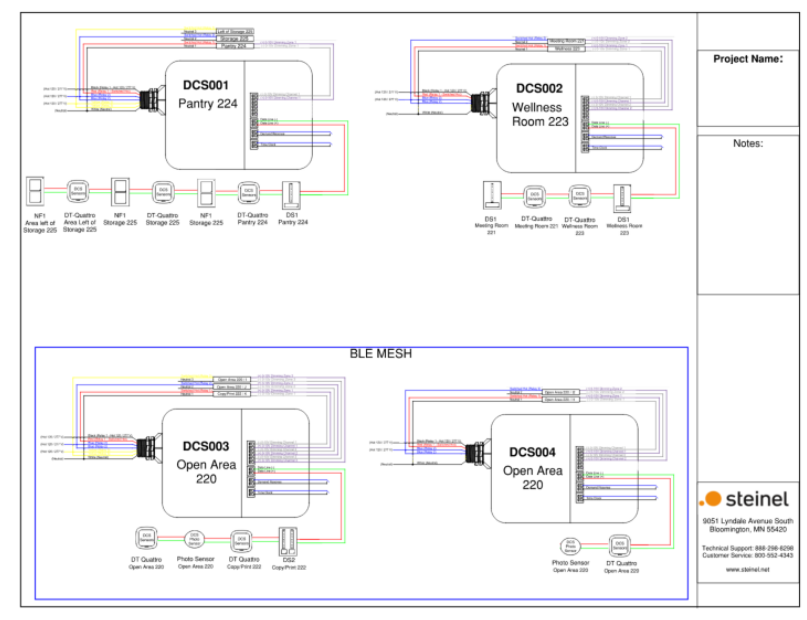# STEINEL Digital Control Solution
Easy to Program.

- BLUETOOTH APP ALLOWS EASE OF COMMISSIONING OR CHANGES TO BE MADE.
- AVAILABLE FREE FOR BOTH IOS AND ANDRIOD.
- USE CASES TO ELIMINATE NEED FOR RECOMMISSIONING SAME ROOM TYPE OVER AND OVER.

STEINEL Digital Control Solution
Quality Customer Service

FULL SUBMITTAL PACKAGES FOR EASE OF INSTALLATION

ON-SITE OR VIRTUAL PRE-WIRE VISITS

"The Steinel DCS controllers, sensors and switches all worked as advertised. The Steinel Sales Manager was a huge help throughout the entire process. He was always available via phone/email, and came out for a pre-wiring walk through to ensure all questions and concerns were addressed up front. Final commissioning was a breeze, and the whole floor was programmed in less than two days."

– RTL ELECTRIC, CHANTILLY VA

STEINEL Digital Control Solution
Easy to Install. Easy to Program.

.● steinel

Digital Done Better

Questions about our solutions?
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
800.852.4343

QUALITY PRODUCTS.
QUALITY SERVICE.