# SUBMITTAL / SHOP DRAWING REVIEW

This submittal/shop drawing review is for general conformance with drawings and specifications only.

Contractor is completely responsible for all dimensions, details, quantities, supply, installation and construction.

This review does not in any way relieve the Contractor of responsibility for compliance with the Contract Documents.

Client:	Catholic District School Board of Eastern Ontario
Project:	St. Mary Catholic School
	Carleton Place, Ontario
Submittal:	Electrical
Notes:	- Light Fixtures - No comment  - Alternate Wall Switch - No comment
	- Electrical panel – shall be 100A, 120/208V, 1PH, as discussed on site

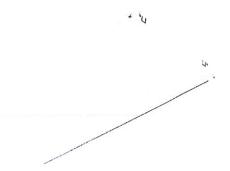
#### MORRIS ENGINEERING LTD.

68 William Street, Suite 200, Brockville, Ontario

(613)499-2077



Project:	ST MARY'S CATHOLIC SCHOOL	
Туре:	F1	
Date:	JULY 11 2019	
Product (	Code:	
Approval		



# Performance and style with LED technology.

#### BLR - SPECIFICATIONS MAY CHANGE WITHOUT NOTICE

Superior-grade, recessed low profile lay-in T-Bar luminaire. Its ideal for indoor use where aesthetics, energy-efficiency and T-Bar mounting is essential. Its low-profile body is ideally suited for shallow, or obstructed plenum installations.

#### **FEATURES**

- Available in 1x4, 2x4 and 2x2 dimensions
- 3000K, 3500K, 4000K and 5000K light colours available
- Diffuser provides a uniform lighting surface
- · L70 of 120,000 hours
- Type IC

#### **OPTIONS**

· Various sizes available: 1x4, 2x4 and 2x2

#### **APPLICATIONS**

- Hospitals
- Offices
- Schools

#### **APPROVALS**

ETL listed product

	Carp, ON KOA 110 ) 839-0575 Fax: (613) 839-0	266
	CWADE	DATE JULY 11 2019
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#### **OPTICS**

Pre-painted body in high-reflectance white. Frosted flat lens provides even light distribution.

#### ELECTRICAL

All components have met all regulatory approvals. Fixture is available in 120 - 277VAC and 347V options.

#### MOUNTING

Holes provided for chain or hanger wire mounting support for T-Bar ceilings.

#### CONSTRUCTION

Pre-painted, high reflectance white body is precision bent for added strength and rigidity. 0.030" nominal thick steel. Hinged door frame with frosted flat acrylic lens for even light distribution. Shallow fixture design provides a clean appearance for many environments.

### **REVIEWED**

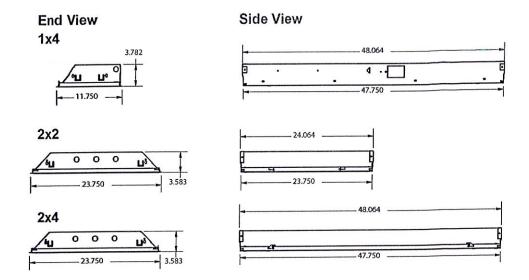
By Farah Bano at 9:50 am, Jul 15, 2019

- 1. Matt to review alternate Legrand Occupancy Sensor.
- 2. Matt, TBIL & Lamarche Review Panel P1 Re & Re on site, c/w panel enclosure box size limitations.
- 3. Lamarche to ensure panel cover (NC32S) is lockable.

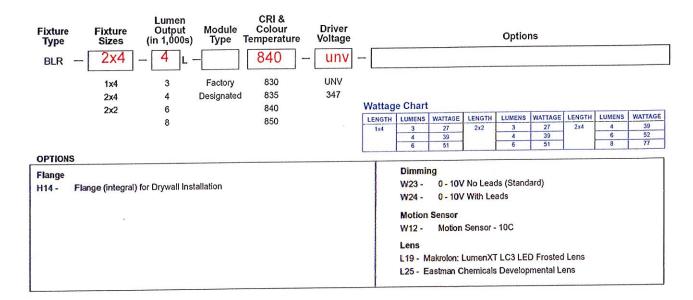




#### PRODUCT DIMENSIONS



# PRODUCT KEY MISBLR2X44L840UNVL15 BLR2X44L840UNVL15 2X4 k12 led fixture



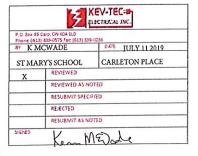


# DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR

DW-100

High sensitivity and dense coverage for exceptional performance

Color-matched lens and low profile for appealing design





Selectable operation, walk-through, test and presentation modes for increased energy savings and convenience

Defaults to Manual-ON operation for maximum energy savings

Part of a comprehensive line of PIR, Ultrasonic and Dual Technology wall switch sensors



#### Description

The DW-100 dual technology wall switch sensor combines the benefits of passive infrared (PIR) and ultrasonic technologies, and can turn lights OFF and ON based on occupancy. It is characterized by high sensitivity to small and large movements, appealing aesthetics, and a variety of features.

### Operation

The DW-100 fits in a single gang junction box. Once the lights are ON, detection by either technology holds lights ON until occupancy is no longer detected and the time delay elapses. DIP switch settings allow for a variety of control options including Auto-ON operation, walk-through and test mode. By default, Auto-ON turns lighting on when both PIR and ultrasonic technologies detect occupancy. Additional DIP switch settings allow the user to choose which sensing technologies turn ON and hold ON the lighting.

#### Manual-on Control

Factory default operation is for Manual-ON, so that users turn lights on only when needed. This control strategy is proven to save more energy than Auto-ON, and is required in ASHRAE 90.1-2010. If desired, the DW-100 may be reconfigured to turn lights on automatically.

### Applications

Wattstopper's dual technology has the flexibility to work in a variety of applications where one technology alone may not be sufficient. Common applications include small and executive offices, small and medium conference rooms and lunch/break rooms. In addition, dual technology sensors are the perfect choice for ADA-compliant buildings due to lower mounting height requirements.

#### Features

- Complies with 2011 NEC requirements
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- · Zero-crossing for long relay life
- Vandal resistant lens combines precise coverage with durability
- Choice of Manual-ON or Auto-ON operation
- Selectable walk-through mode turns lights off three minutes after the room is initially occupied if no motion is detected after the first 30 seconds
- Test mode allows quick and easy adjustments
- Selectable audible alert for impending shutoff

- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- Four occupancy logic options give users the ability to customize control to meet application needs
- · Optional light level sensing with simple setup
- Service mode allows sensor to operate as a service switch in the unlikely event of a failure
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- · Compatible with decorator wall plates
- BAA/TAA-compliant models available

PROJECT ST MARY'S SCHOOL

LOCATION, TYPE CARLETON PLACE

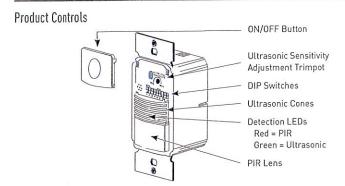


# **Specifications**

- DW-100: 120/277 VAC; 50/60 Hz
   120 VAC, 0-800 W ballast or tungsten, 1/6 hp
   277 VAC, 0-1200 W ballast
- Time delays: 5, 15 or 30 minutes, walk-through, test-mode
- Coverage: Major motion, PIR 35' x 30', Ultrasonic 20' x 20' Minor motion, PIR 20' x 15', Ultrasonic 15' x 15'
- · Ultrasonic Fequency: 40kHz

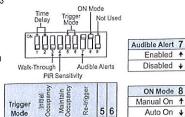
- Sensitivity adjustment: PIR (high/low), Ultrasonic (fully variable)
- Dimensions: 2.73" x 1.76" x 1.83" (69.3mm x 44.7mm x 46.5mm) L x W x D
- UL and cUL listed
- · Five year warranty

### Controls & Settings









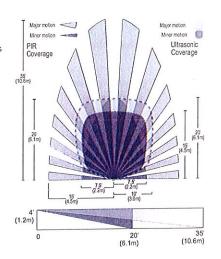
Switch 9 is not used

#### ↑=ON+ =OFF ◄=Factory Setting

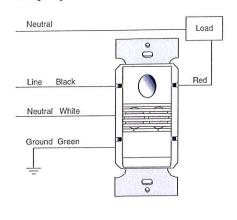
## Coverage & Wiring

#### Coverage Pattern

For best performance, Wattstopper recommends using this sensor in spaces no larger than 18' x 15'.



#### Wiring Diagram



# Ordering Information

Catalog #	Color	Voltage	Load Rating
DW-100-W DW-100-W-U	White	120/277 VAC; 50/60 Hz	<ul> <li>120 VAC, 0-800 W ballast or tungsten,1/6 hp</li> <li>277 VAC, 0-1200 W ballast</li> </ul>
☐ DW-100-LA	Lt. Almond		
☐ DW-100-I ☐ DW-100-I-U	Ivory		
☐ DW-100-G	Grey		
☐ DW-100-B	Black		

Order wall plate separately. -U = BAA/TAA compliant; product is compliant with Buy American Act and Trade Agreement Act.

# NQ430L1C





Main lugs	
QOB	
QOB-VH	
QHB	
Copper	
	QOB QOB-VH QHB

Complementary

30 32 in	
32 in	
20 in	
5.75 inFor NEMA 1 enclosure 6.5 inFor NEMA 3R/5/12 enclosure	
100 A	
4-wire	
3 phases	
240 V AC 48 V DC	
	5.75 inFor NEMA 1 enclosure 6.5 inFor NEMA 3R/5/12 enclosure 100 A 4-wire 3 phases 240 V AC

#### Environment

LIMITOTITIETIC		
standards	CSA	
	UL	

### Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1419 - Schneider Electric declaration of conformity	Compliant - since 1419 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Need no specific recycling operations	Need no specific recycling operations

#### Contractual warranty

Warranty period	18 months

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# Product data sheet

### Characteristics

# MH32

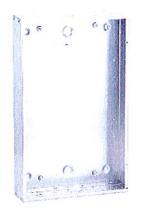
NQNF Panelboard Enclosure Box, Type 1, 20 x 32 x 5.75 in

Product availability: Stock - Normally stocked in distribution facility





Price\*: 113.00 USD



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Product	Enclosure	
duct	Eliciosare	

Steel	
20 in	
32 in	
5.75 in	
	20 in 32 in

Environment		
Enclosure Rating	NEMA 1	
Product certifications	cULus	

Ordering and shipping deta	ails	
Category	07969 - RTA PANELBOARD BOX - STD NEMA 1	
Discount Schedule	PE1A	
GTIN	00785901027812	
Nbr. of units in pkg.	1	
Package weight (Lbs)	24.420000000000002	
Returnability	Υ	
Country of origin	US	Y: 9

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1419 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	

REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
Product end of life instructions	Need no specific recycling operations	
Contractual warranty		
Warranty period	18 months	

# Product data sheet Characteristics

# NC32S

NQNF Panelboard Enclosure Surface Cover, Type 1, 20 x 32 in







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Main

Product	Surface cover	
Color	Grey	
Cover type	Surface cover	

Complementary

Complementary		
Material Steel		
Width	20 in	
Height	32 in	

Environment

Enclosure Rating	NEMA 1	
Product certifications	cULus	

Offer Sustainability

Office Odotalitability		
Sustainable offer status	stainable offer status Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1419 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
Product end of life instructions Need no specific recycling operations		
		(