



## FEATURES

- A+CLASS™ Daylight Sensor
- Used with either APCS (DS) Daylight Switching or (DD) Daylight Dimming options
- Provides daylight levels to A+CLASS™ CCM (classroom control module)
- 1 to 4 zones of A+CLASS™ self-adjusting daylighting rows
- Open loop
- Foot-candle range: 3–6,000 fc, pre-set to 3–300 for typical classroom applications
- Plug-and-Play connection to A+CLASS™ system components provided standard
- Mounts horizontally for ceiling mount (windows, side lighting)
- Mounts vertically for skylight well mount (top lighting)
- Architecturally attractive design
- UL and cUL listed
- Title 24 compliant, LEED for Schools and CHPS program compatible
- 5-Year warranty when purchased as part of the complete A+CLASS™ lighting and controls package
- Required to implement Daylighting

## PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

## OVERVIEW

The A+CLASS™ DS Daylight Sensor provides necessary daylight-level information to the A+CLASS™ optional daylight harvesting control module. Using a photodiode element, this sensor continuously measures daylight levels and sends the information to the A+CLASS™ CCM (Classroom Control Module) for daylight harvesting interface with A+CLASS lighting in GEN (general ambient) mode. In order to operate as a true Open Loop controller, the sensor must be positioned to see only daylight (no artificial light). The applicable foot-candle range is pre-selected as 3-300 for typical classroom applications. A+CLASS™ Daylight Sensor APCS-DS can be easily modified to accommodate varying classroom daylight conditions between 3 and 6,000 foot-candles by using a jumper beneath the front cover. See separate Technical Installation Data Sheet for additional details. If changed from standard setting, CCM setting must also be changed to match. This is easily accomplished using the LCD interface in the CCM. See CCM instructions.

A+CLASS™ DS and DD options will include, as standard, one 50' plug-and-play low voltage connection cable per sensor when either of these two options is ordered.

## Electrical

- Quick-to-Install™ (QTI) low voltage connection to A+CLASS™ low voltage Daylight Sensing CAT5 cable provided
- Three jumper-selectable foot candle ranges: 3–300fc (standard setting); 30–3,000fc; 60–6,000fc
- Low-voltage Class 2 device
- Protective hard-plastic cover
- 3-conductor 22 AWG twisted cable—equal to Belden 8443
- Maximum wire length: 250 feet (76.2m)

## Dimensional

- 2" diameter x 1.2" height (50.8 diameter x 30.5mm height)

## Certifications

- UL and cUL listed

## Warranty

- 5-year warranty when purchased as part of the complete A+CLASS™ system.

## SPECIFICATIONS

### A+CLASS Energy Management Daylight Sensing Component

Ships as part of the A+CLASS™ energy management system when DS (Daylight Switching) or DD (Daylight dimming) is ordered for one to four zones of A+CLASS™ lighting.

## A+CLASS™ SYSTEM ORDERING INFORMATION

## EXAMPLE: APCS-2-277-TLC1-02-DDZ2

ROOM NO.		NO. OF ROWS		NO. OF TEACHER STATIONS		MANUAL CONTROL AT ENTRY		SWITCH BUTTON LABELS		DAYLIGHT ZONES	
Type Mark (Max 10 characters. Will appear on separate line of order and label.)		2 Two 3 Three 4 Four		1 One (Std.) 2 Two		Blank Single master on/off control for all rows MC2 Two sets of master on/off switches that control all rows (for dual entry/exit points) <sup>2</sup> RC Independent row control on/off switches for all rows (1 switch for each row, ganged) RC2 Two sets of independent on/off switch stations for all rows <sup>2</sup> MRC One master on/off plus one row control on/off switch for each row (ganged together) MRC2 Two sets of master on/off plus one row control on/off switch for each row (ganged together)		Blank Button labeling supplied as standard O2 Two Occupancy Sensors <sup>2</sup>		Blank None Z1 Row nearest the window <sup>2</sup> Z2 2 Rows nearest the window <sup>2</sup> Z3 3 Rows nearest the window <sup>2</sup> Z4 4 Rows nearest the window <sup>2</sup>	
VOLTAGE		WHITEBOARD		OCCUPANCY SENSOR		DAYLIGHT SENSOR AND CONTROL					
120 120V 277 277V		Blank No Whiteboard Lighting Control WT Whiteboard Lighting Control at Teacher Station <sup>4</sup> WS Independent whiteboard lighting switch (not in teacher station) <sup>2</sup>		Blank One Occupancy Sensor O2 Two Occupancy Sensors <sup>2</sup>		Blank None DD Daylight Dimming: daylight sensor for dimming general mode <sup>1,2</sup> DS Daylight Switching: Daylight sensor for switching general mode off when daylight is sufficient <sup>2</sup>					
SYSTEM		TEACHER STATION									
APCS A+CLASS		TLC General, A/V, Study Time AVD A/V Teacher Dimming added to TLC <sup>1,2,3</sup> GMD General Teacher Dimming added to TLC <sup>1,2,3</sup> AGD General and A/V Teacher Dimming added to TLC <sup>1,2,3</sup>									

<sup>1</sup> Requires 0-10V dimming ballast in lighting fixture.

<sup>2</sup> Includes additional plug & play cable.

<sup>3</sup> Adds Raise/Lower dimming switch to TLC. 3-gang switch station consists of General/A/V switch, Raise/Lower switch, Study Time switch

<sup>4</sup> WT when used with 2 Teacher Stations will control one whiteboard from 2 locations.