



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.

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™ 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.

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	Blank Button labeling supplied as standard	Blank None
	VOLTAGE 120 120V 277 277V	WHITEBOARD Blank No Whiteboard Lighting Control	MC2 Two sets of master on/off switches that control all rows (for dual entry/exit points) ²		Z1 Row nearest the window ²
		WT Whiteboard Lighting Control at Teacher Station ⁴	RC Independent row control on/off switches for all rows (1 switch for each row, ganged)		Z2 2 Rows nearest the window ²
SYSTEM	TEACHER STATION	WS Independent whiteboard lighting switch (not in teacher station) ²	RC2 Two sets of independent on/off switch stations for all rows ²	OCCUPANCY SENSOR	Z3 3 Rows nearest the window ²
APCS A+CLASS	TLC General, A/V, Study Time AVD A/V Teacher Dimming added to TLC ^{1,2,3} GMD General Teacher Dimming added to TLC ^{1,2,3} AGD General and A/V Teacher Dimming added to TLC ^{1,2,3}		MRC One master on/off plus one row control on/off switch for each row (ganged together)	Blank One Occupancy Sensor	Z4 4 Rows nearest the window ²
			MRC2 Two sets of master on/off plus one row control on/off switch for each row (ganged together)	O2 Two Occupancy Sensors ²	DD Daylight Dimming: daylight sensor for dimming general mode ^{1,2}
			NA None supplied by Alera		DS Daylight Switching: Daylight sensor for switching general mode off when daylight is sufficient ²

¹ Requires 0-10V dimming ballast in lighting fixture.

² Includes additional plug & play cable.

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

⁴ WT when used with 2 Teacher Stations will control one whiteboard from 2 locations.

US Patent Pending.

Specifications subject to change without notice.