

# DIGITAL

## 365/7 Day SunSet Time Switch

### SunSet & Seasonal Control

#### DZS Series



#### APPLICATIONS

- HVAC equipment, horns and bells.
- Interior lighting, Electric motors.
- Outdoor lighting and signs.

#### FEATURES

- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes can be individually offset +/-1 to 240 minutes from both sunset and sunrise times.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Signal/Pulse Duration:** 2 different settings per channel: each 1-99 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.
- **Memory Module:** Removable MM can be programmed at any one location and inserted into another DZS series unit.
- **Copy Feature:** Unit can be configured to copy program schedule to multiple memory modules.
- **Option:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120/208-240/277VAC, 50/60Hz.
- **Terminal Range:**  
#14 - #16AWG for line input.  
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to +70 °C).
- **Power Consumption:**  
5VA Max: DZS100/200BP.  
6VA Max: DZS400BP.
- **Enclosure:**  
- Noryl® Indoor/Outdoor NEMA 3R  
- With lockable hasp. (See Pages 464-468 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



CAT. NO.	UPC CODE	INPUT SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
DZS100BP	82182	120/208-240/277	1	DPDT
DZS200BP	82183	120/208-240/277	2	SPDT
DZS400BP	82184	120/208-240/277	4	SPDT
USB-MMP	82196	—	Memory Module Programmer	Includes software

TYPE	DZS100BP, DZS200BP			DZS400BP		
	VOLTAGE (VAC)	NO	RATING NC	VOLTAGE (VAC)	NO	RATING NC
General Purpose	204-277	30A	30A	204-277	20A	20A
	120	30A	10A	120-277	13A	—
Ballast	277	20A	10A	120-277	13A	—
	120-277	15A	2A	120	8A	—
Pilot Duty	120-277	720VA	720VA	120-277	720VA	360VA
Motor	120	1HP	1HP	120/240	1/2HP	1/2HP
	208-277	2HP	2HP	120/240	1/2HP	1/2HP
Resistive	28VDC	30A	30A	—	—	—
Electronic Ballast (LED)	277	16A	—	—	—	—