

PRODUCT SUBMITTAL 667

Product: **Single Zone SIM Control (654) Low Voltage**
Date: **25 March 2015**



Article No.	Description	Unit Weight lb (g)
315839-001	Single Zone SIM Control (654) Low Voltage	1.3 (590)

TECHNICAL DESCRIPTION

Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	1.3 lb (590 g)
Dimensions	5 H x 3 1/4 W x 15/16 in. D (127 x 82 x 23 mm)
Enclosure	White PVC plastic, NEMA type 1
Ambient conditions	-4 to 122°F (-20 to 50°C), <90% RH non-condensing, outdoor use permitted when installed inside a NEMA 3 enclosure
Power supply	24 V (ac) ±10%, 60Hz, Class 2, 16 VA standby, 100 VA fully loaded
Relay capacity	24 V (ac) 2 A, 3.6 A combined
Modulating output	0-10 V (dc), 500 Ω minimum load impedance, 4-20 mA 1 kΩ max load impedance
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C±0.2°C) β=3892 Included: Outdoor sensor 070, Universal Sensor 082

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FUNCTIONAL DESCRIPTION

The Singl Zone SIM Control (654) operates hydronic equipment to melt snow or ice from any surface including driveways, walkways, patios, business entrances, parking ramps, loading docks, hospital entrances, helipads or car wash bays. The surface temperature for snow melting is controlled automatically to reduce operating energy costs.

The control has an automatic start and stop function when used with the Snow/Ice Sensor (090) (Art. 236357-001). Automatic start with a timed stop is available when used with the Aerial Snow Sensor (095) (Art. 315836-001). The control can operate a dedicated hydronic boiler or a mixing device. Isolation relays are required to operate line voltage pumps.

Additional features:

- Automatic snow / ice detection
- Supports both in-slab and retrofit aerial sensors
- Manual start with timer
- Programmable schedule
- Warm weather shut down
- Cold weather cut out
- Idling
- Snow melt zoning with priority
- Tandem snow / ice detection
- Slab protection
- Storm
- Manual override
- Snow melt zone tracking
- Scenes
- Away key
- Exercising
- Alert output