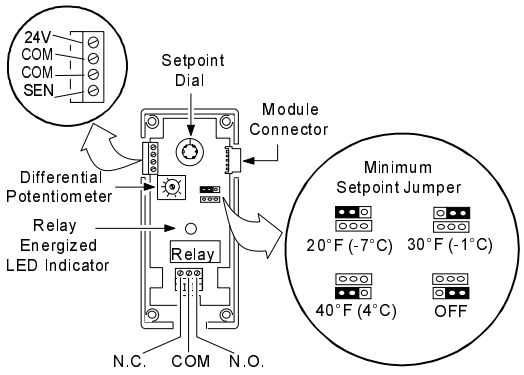
JOHNSON CONTROLS

Controls Group 507 E. Michigan Street
P.O. Box 423, Milwaukee, WI 53202
Code No. LIT-1922365

A350E

Electronic On/Off Cooling Control



A350E

Description

The A350E is an on/off electronic cooling only control with SPDT relay output and LED indication. Besides being a cooling only control, the A350E has two features that differentiate it from the A350A/B Electronic Temperature Control: an adjustable minimum setpoint and short/open circuit protection.

The A350E also has an adjustable differential and an interchangeable temperature sensor. The A350E will accept up to nine S350 Temperature Stage Modules to control a total of ten stages of cooling.

Like all System 350 products, the A350E is housed in a NEMA 1, high-impact plastic enclosure. The modular design provides easy, plug-together connections for quick installation and future expandability.

Features

- Minimum setpoint selection allows greater control over the cooling system.
- Short circuit and open circuit protection safeguard the equipment by de-energizing the relay and shutting off the equipment if the sensor or sensor wiring fails shorted or open.
- Wide adjustable differential of 1 to 30F° (0.5 to 17C°) enables the user to match equipment cycle rate and/or sequencing for a given application.
- Modular design provides the flexibility to add up to nine S350 Stage Modules, a D350 Temperature Display Module, and a Y350R Power Module.
- Plug-together connectors and 35 mm DIN rail mounting eliminate wiring between modules, reducing installation costs and wiring errors.
- One dual-scale model covers a temperature range of 10 to 65°F (-12 to 18°C).
- Interchangeable temperature sensors increase versatility and serviceability.

Accessories

The base silicon sensor (A99BC-25C, not immersible) is included with each A350E Control.

Applications

- frozen/refrigerated food cases
- space temperature control (cooling only)
- cooling tower control
- beverage/milk coolers
- chiller staging

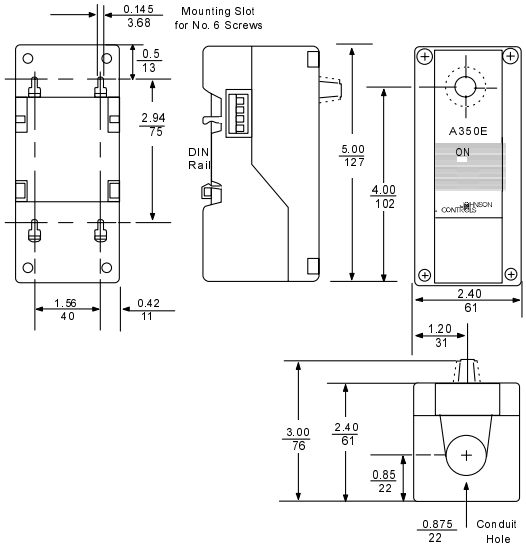
To Order

Specify code number from the selection chart, along with additional staging, display, power modules, and temperature sensing enclosures, if required.

Selection Chart

Code Number	Description
A350EA-4C	A350E Cooling Control, °F/°C scale, includes A99BC-25C Temperature Sensor

A350E Dimensions, in. (mm)



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A350E Electronic On/Off Cooling Control (Continued)

Specifications

A350E Electronic Cooling Control		
Temperature Range		10 to 65°F (-12 to 18°C)
Differential Range		1 to 30F° (0.5 to 17C°)
Minimum Setpoint		Four jumper-selectable settings: 20°F, 30°F, 40°F, and Off
Circuit Protection		De-energizes the relay and shuts off the equipment if the sensor shorts or opens
Supply Voltage[(a)]	**Transformer**	20 to 30 VAC, 50/60 Hz, Class 2
	Y350R	120/240 VAC, 50/60 HZ
Relays		SPDT enclosed relays, contacts rated at 10 amp, non-inductive (resistive), 1/2 hp 120/240 VAC
Power Consumption		1.4 VA Maximum
Ambient Temperature	**Operating**	-30 to 150°F (-34 to 66°C)
	Shipping	-40 to 185°F (-40 to 85°C)
Humidity		0 to 95% RH non-condensing; maximum dew point: 85°F (29°C)
Case and Cover Material		NEMA 1 high-impact thermoplastic

(a) Only one voltage source may be used.

Relay Ratings

Voltage AC	120	208/240
Full Load Amp	9.8	4.9
Locked Rotor Amp	58.8	29.4
Non-Inductive Amp	10 at 24/240 VAC	
Pilot Duty	125 VA at 24/240 VAC	