

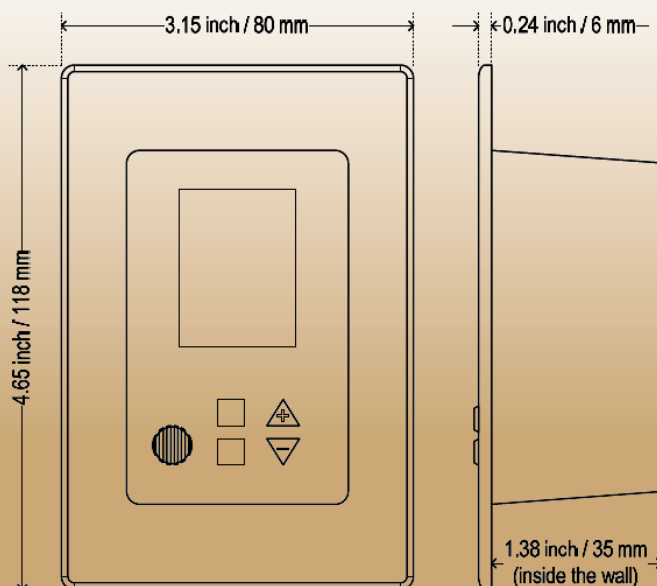
# PYROCON12 *Snow Melt Control*

## FEATURES & BENEFITS

- The PYROCON12 offers smart and easy control of the PYRO Snow and Ice melting system.
- Automatic controlling device for snow/ice melting and deicing protection.
- Energy efficient algorithm.
- Up to 5 zones activation.
- Large backlit LCD display with indication of the active zones.
- Sequencing option between the zones—allowing larger snow melting area with less available power at site.
- User friendly interface.
- Multiple snow sensor inputs—optional.
- Adjustable Set-points.
- Adjustable Upper and Lower limit temperature.
- Adjustable Hold/ON/OFF delay and manual on.
- Adjustable splitting time between the zones with multi-configurations between zones.
- Technician testing / commissioning mode for easy and fast system test all year long (even during summer or at high temp.).
- UL certification.



## DIMENSIONS



Part #	Item	UPC# 093319	Description
PYROCON12 TRACE	Main Controller	42322	Controller and User Interface Panel

# ***PYROCON12 Snow Melt Control***

## **DESCRIPTION**

The PYROCON12 is a stylish, user friendly and efficient controller for ice and snow melting applications.

When receiving a signal from the snow sensors, it activates up to 5 electrical heating elements. Based on the DIP switches configuration, the 5 zones are activated either continuously or with customized sequencing between the zones.

The adjustable Hold-On timer keeps the outputs to the zones active to ensure complete snow melting. The Hold-On (Time delay) is adjustable in the range of 0 up to 99 hours.

The outdoor temperature set-point, as well as the slab upper limit temperature and ambient lower limit temperature can be easily set by a push of a button. The technician settings mode allows the installer or technician to adjust all the parameters for each installation.

Commissioning mode sets the system in operation condition and simulates low temperatures, allowing testing of the system even during summer months.

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### ***The parameters that can be modified are as follow:***

- Temperature set point.
  - Lower ambient temperature limit to stop heaters.
  - Upper slab temperature limit to stop heaters.
  - Time delay (Hold-on) before stopping the heaters.
  - ON time for manual mode.
  - Heater cycle time / Splitting time between zones.
  - Number of zones and sequence of operation (Sensors and heaters control logic).
  - Snow sensor RH sensitivity.
  - Number of snow sensors connected.
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DIP switches located on the back of the PYROCON12 provides easy access to technician mode and to the system configuration settings.

The 5th output can be used as a stand-alone ice melting zone or be activated simultaneously with zone #4. The Zone #5 offers a simple option for gutter, roof ice-melting or other critical areas. The PYROCON12 allows snow sensor input both from the PYROSENSE sensors and also from a 3rd party snow sensors. 3 terminals in the PYROCON12 are available to connect a CIT-1, GIT-1 or SIT-6E sensors and use them to control some or all of the zones.

The PYROCON12 fits into a standard 2 x 4 flush mounted wall box. Installing the thermostat is quick and easy hook up.

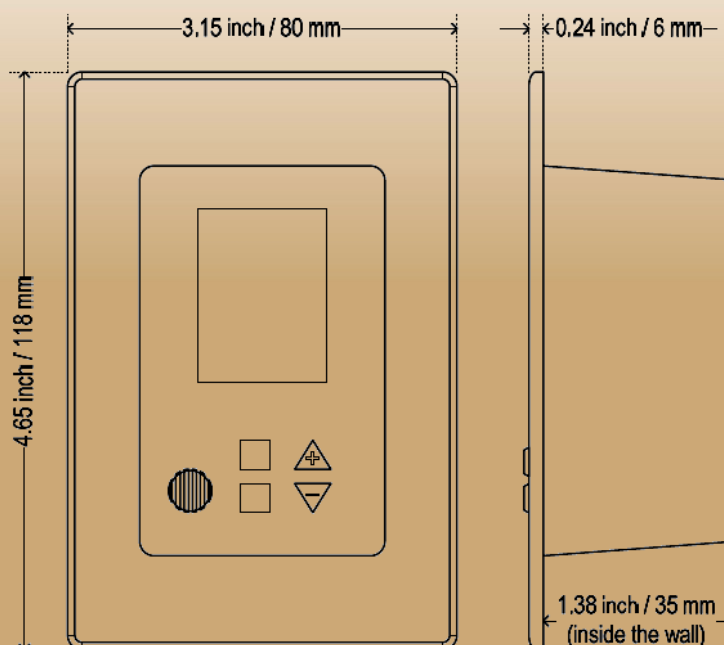
Connect the PYROCON12 to one of the PYROBOX power distribution boxes with integrated Ground Fault Sensor, add a snow sensor (PYROSENSE) and the system is complete.

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## TECHNICAL SPECIFICATIONS

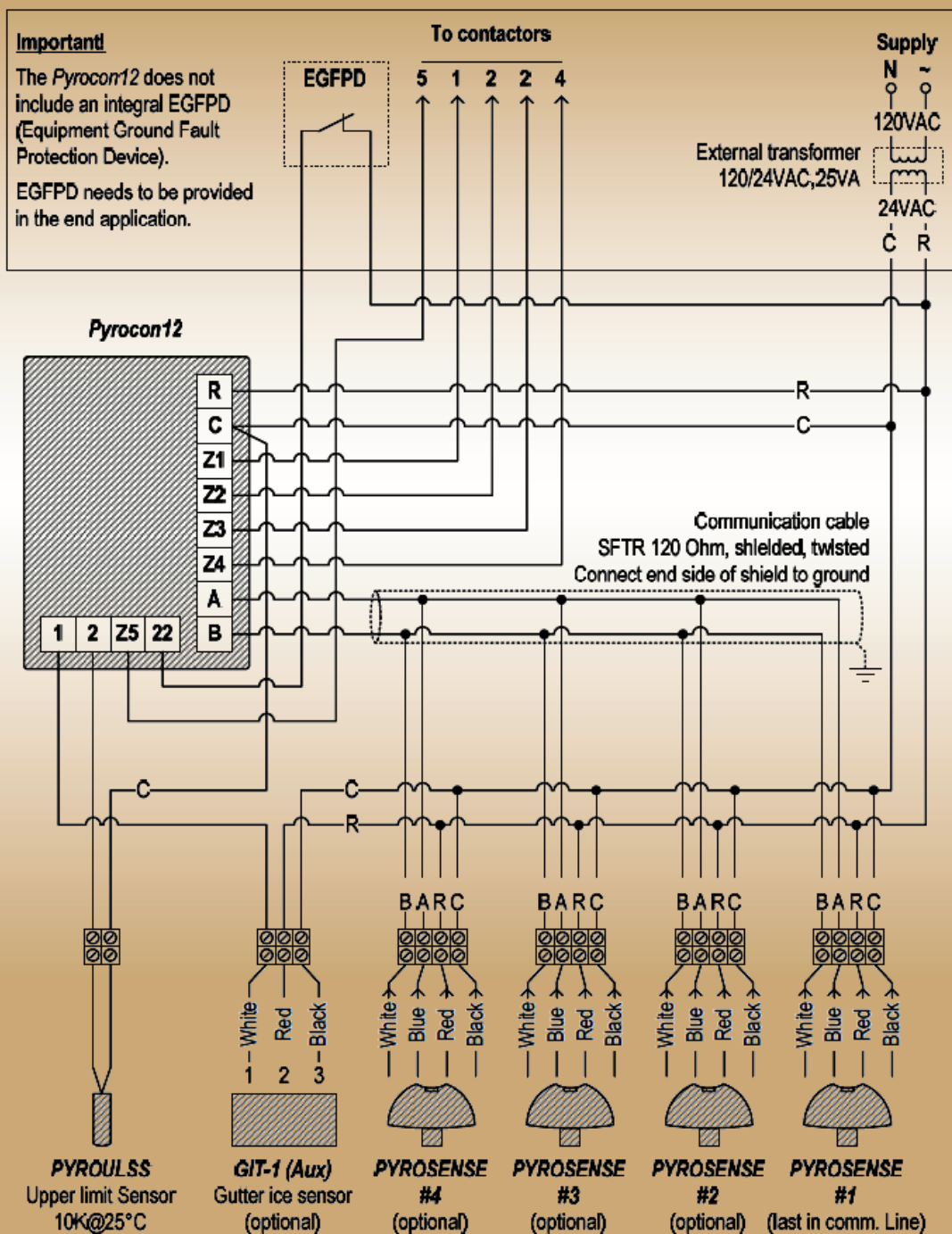
<b>Approvals</b>	UL 873 XAPX2.E362312	<b>Supply</b>	24VAC $\pm$ 20%, 50-60 Hz, 3W
<b>Enclosure Protection</b>	IP20, Indoor Mounting	<b>Outputs</b>	5 outputs 24 VAC 1A (max) each
<b>Material</b>	ABS/PC	<b>Inputs</b>	#1 Snow sensor CIT-1 series #2 up to four PYROSENSE Snow Sensors (by King Electric) #3 PYROULSS Upper Limit Sensor NTC 10K (by King Electric)
<b>Mounting</b>	Flush mount Fits into standard electrical box (Carlon—B114R or similar)	<b>Operating temp.</b>	-10° F to 122° F (-10° C to 50° C)
<b>Terminal blocks</b>	1.5mm <sup>2</sup> , 14 AWG (max)	<b>Storage temp.</b>	-40° F to 176° F (-40° C to 80° C)
<b>Communication</b>	RS485 MODBUS to sensor		

## DIMENSIONS



# PYROCON12 Snow Melt Control

## WIRING DIAGRAM



The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult King Electric. King shall not be liable for damages resulting from misapplication or misuse of its products. This document is subject to change without any notice.