Sollatek™

Intelligent Controls

LOW COST SOLUTION

FREORANGE

TEMPERATURE CONTROL

VOLTAGE PROTECTION

FREOCOM FCR12™

ONE OUTPUT, TWO INPUTS
TEMPERATURE CONTROL AND VOLTAGE PROTECTION FOR ALL FRIDGES AND FREEZERS

Description

The FCR12 has one control output and has two probe inputs.

It provides very accurate temperature control to your refrigeration appliance, timed and/or temperature controlled defrost and protects equipment from high and low voltage.

Encapsulation provides reliability and immunity from environmental factors such as humidity and altitude. A connection port is provided for programming. These factors make the FCR12 the low cost solution for high performance control of all refrigeration equipment.

- *Compact design, small size*
- *Drop-in replacement for electro-mechanical thermostat*

Features

- Highly accurate temperature measurement and control – not affected by barometric pressure
- Small physical size
- Direct retrofit to the electro-mechanical thermostat
- Two external remote temperature probes for precise measurement of air, evaporator or condenser
- Temperature dial user adjustable in-situ. Range can be OEM specified
- Automatic delay with TimeSave™ function (brownout)
- Timed/automatic defrost
- Suitable for evaporator control or air control
- Suitable for CO_2 and HC
- High impedance inputs
- Can Interface to door switch

- Available as 115 or 230Vac versions
- High voltage protection
- Low voltage protection
- Spike/surge protection
- In-circuit programming – allowing the units to be re-programmed while installed in the field
- SPP USB programmer and configuration software available
- Encapsulated circuit board to give water splash resistance for rugged applications

Current rating	1x16A
Weight (g)	90
Dimensions (mm)	76 x 35 x 30
No. Temp probe inputs	2
No. Control outputs	1
Order probes separately	

Features:

MICROPROCESSOR CONTROL	PROGRAMMABLE	DIGITAL °C/°F THERMOSTAT	SPLASH PROOF	TIMED DEFROST	START UP DELAY	16 AMPS UP TO

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Specifications

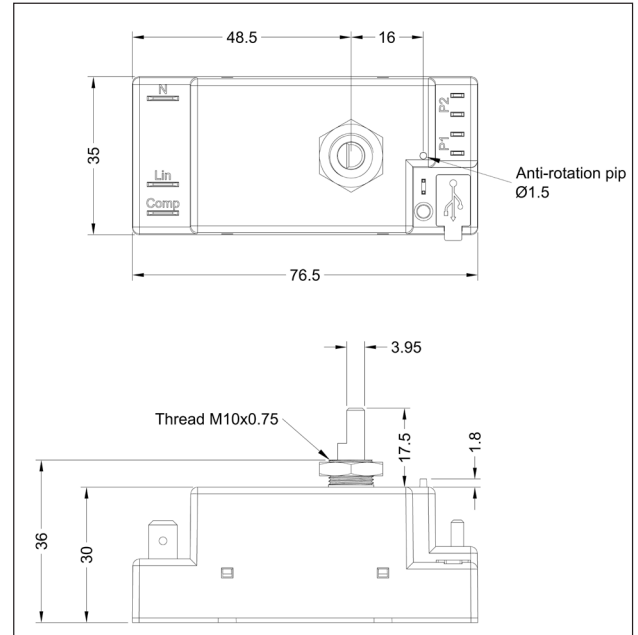|		
Temperature Control*	Air or evaporator	
Time Delay*	180s	
Defrost Control*	Timed or active	
Voltage Protection*	High voltage and low voltage	
Over temperature protection*	Compressor probe	
Output- compressor	16A 250Vac	
	70A Inrush Current @ 240Vac	
	140A Inrush Current @ 120Vac	
	0.75HP @ 120Vac	
	1.5HP @ 240Vac	
	4000 VA Breaking Capacity	
Indication	1 off LED	
Central knob	Yes	
Mounting	1 off M10 nut (provided)	
Programming connector	Micro-USB	
Door switch	Via second probe input	
Temperature control range	-28°C to +25°C	
Overheat alarm	+30°C to +120°C	
Nominal Voltage	230V	115V
High Voltage Disconnect*	266V	133V
High Voltage Reconnect*	260V	130V
Low Voltage Disconnect*	180V	90V
Low Voltage Reconnect*	186V	93V
Under Voltage Blind Time*	2s	
Immediate Disconnect Voltage*	150V	
Over Voltage Blind Time*	0.5s	
Control	Microprocessor	
Working frequency	Auto-sense 50/60Hz	
Surge Protection	6.5kA	
Power Connections	0.25" spade terminals suitable for push-on crimps	
Environmental	Sealed and protected against water, humidity, dust and insects	
Unit Dimensions	76 x 35 x 30mm	
Unit Weight	90g	
Temperature Probe Type	NTC Thermistor	
Temperature Probe Length	1 meter or 3 meters (different lengths available)	

Packing Specifications

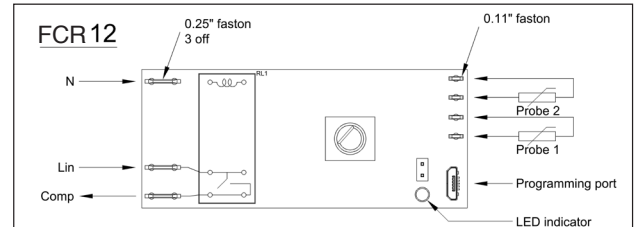|	
Carton Dimensions (cm)	30.4 x 50.7 x 27.7
Carton Weight	NW: 18kgs, GW: 20kgs
Cartons per Pallet	21
Pallet Dimensions (cm)	120 x 100 x 100
Pallet Weight (kgs)	441 approx

All the above mentioned operational parameters are configurable based on the customer's needs.

*Programmable

STOCK NO.	DESCRIPTION
92330121	FreoCom FCR12 115V 1xO/P 2xI/P
92330122	FreoCom FCR12 230V 1xO/P 2xI/P
9T16030B	Temp Probe 6mm Black 3m -20 to +70C
9T23010B	Temp Probe 3mm Black 1m -20C to +20C
9T23010R	Temp Probe 3mm Red 1m -20C to +20C
9T23010W	Temp Probe 3mm White 1m -20C to +20C
9T23030B	Temp Probe 3mm Black 3m -20C to +20C
9T25010B	Temp Probe 5mm Black 1m -20C to +20C
9T25015B	Temp Probe 5mm Black 1.5m -20C to +20C
9T25030B	Temp Probe 5mm Black 3m -20C to +20C
9T26010B	Temp Probe 6mm Black 1m -20C to +20C
9T26030B	Temp Probe 6mm Black 3m -20 to +20C
9T45010R	Temp Probe 5mm Red 1m +50C to +90C
9T45030R	Temp Probe 5mm Red 3m +50C to +90C

Dimensions

Connections

RoHS

For more information on Sollatek's Refrigeration Control Range refer to the FreoRange Catalogue.
or visit www.sollatek.com

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