Connect: SCS

The smarter IoT controller

- Energy Saving
- Advanced control
- Bluetooth Smart (4.0)
- Robust
- Easy to use

Specifications	
Input voltage range	90-240V 50/60 Hz
IP rating	IPx5 (Front panel IP68)
Max. power consumption	3.5W
Relay ratings	1x UL: 7.2FLA & 34.8LRA, IEC: 8A 1x UL: 3A, IEC: 3A 2 x 0.4A (triac solid state)
Relay operating life	>1 million cycles (at nominal load*)
Low voltage output ratings	1 x 5VDC 100mA 4 x 0-24VDC, 1A per channel *External LVDC supply required for 24VDC outputs*
EMC protection	4000V (per EN61000-6-2)
Refrigerant compatibility	HFC, CO2, Hydrocarbon (per IEC60335-2-89)
Operating temp. range	IEC -20°C to +55°C (-4°F to +131°F) UL -20°C to +50°C (-4°F to +122°F)
Storage temp. range	-40°C to +80°C (-40°F to +176°F)
Weight	0.13Kg (0.29lbs)
Approvals	CE cULus FC RoHS

*Tested with Sanden SRAB 6401 compressor

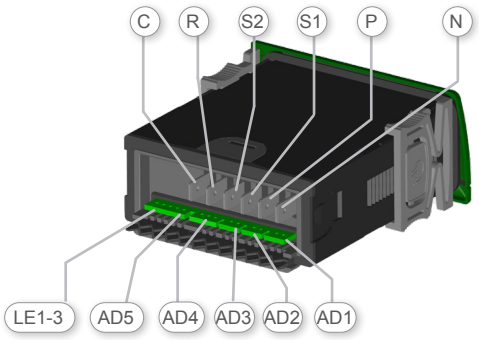
Standard SKUs					
Model	**Part Number^**	**HV outputs**	**LV outputs**	**Inputs**	**Realtime Clock**
SCS Connect	SCSxCx009	4	4	5	✓
	SCSxCx010	3	2	5	✓
	SCSxCx011	1	1	5	✓
SCS Ready	SCSNRx001	2	4	5	✗
	SCSNRx003	3	2	5	✗
	SCSNRx004	1	1	5	✗
	SCSNRx005	4	4	5	✗

^Listed part numbers have green display and trim. Other colours are available on request

Functions	
Energy saving	3 level automatic standby with temperature, lighting, and fan control
Connectivity	iBeacon, SCS Connect System, Eddystone
Defrost	Time or temperature based; hot gas, electrical or passive
Alarms	Configurable alarms for door state, product temp, compressor temp, faults
Self diagnosis	Sensor, compressor, lighting and fan failure detection
Configuration	Parameter setting via buttons or smartphone interface

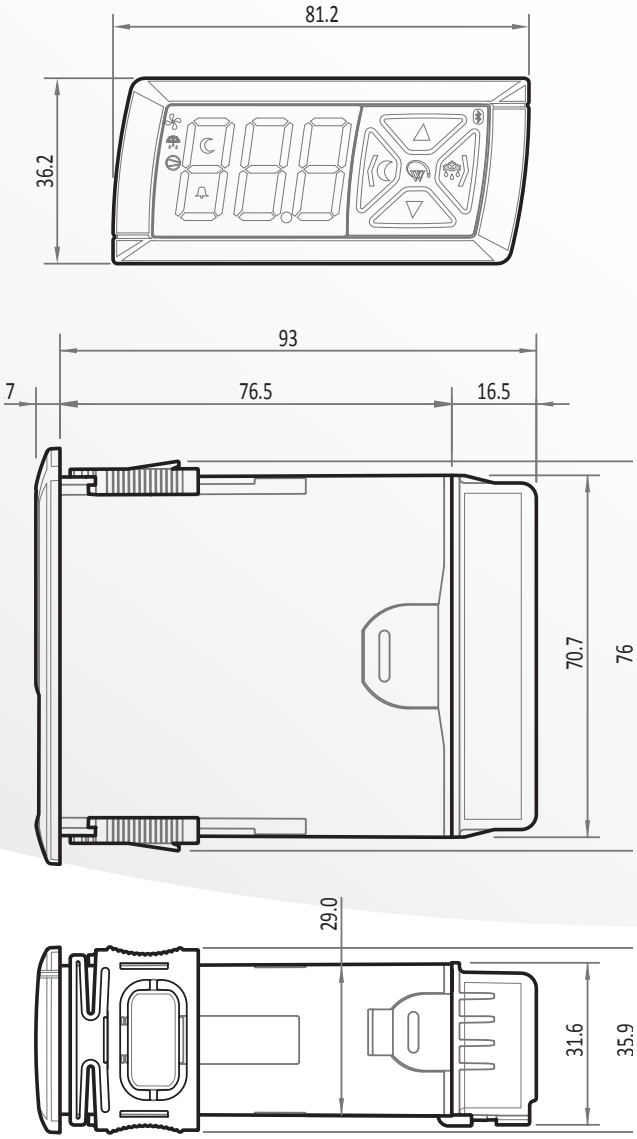
Connections		
HV	**Name**	**Rating**
C	Compressor	Switched 8(8)A ac o/p
R	Relay	Switched 3(3)A ac o/p
S2	Switch 2	Switched 0.4A ac o/p
S1	Switch 1	Switched 0.4A ac o/p
P	Phase	90-240Vac i/p
N	Neutral	

SELV	**Name**	**Rating**
AD1-3	Sensor i/p	Digital 0-5V i/p Analog NTC i/p
AD4	Sensor i/p Switched o/p	Digital 0-5V i/p Analog NTC i/p 5V 100mA o/p
AD5	Sensor i/p	Digital 0-5V i/p Analog NTC i/p
	PWM o/p	0-24Vdc, 1A DC o/p
LE1-3	PWM o/p	0-24Vdc, 1A DC o/p



- Outputs S1 and S2 can be used to switch fan motors or lights, or as a signal line to control the speed of Wellington ECR evaporator and condensor fan motors in real time.
- Output R can be used to switch lights or defrost heater.
- Outputs LE1, 2, and 3 are independently dimmable outputs from a DC power supply connected to input PWM. They can be used to provide colour tuning or multizone dimming for LED lighting. LED power supply is not included.

DIMENSIONS



Recommended cut-out size 71.5 +/-0.5 mm x 29.5 +/-0.5 mm

SUPPORTING SOFTWARE

Customisation is available to OEMs through the use of a simple to use Windows interface, which allows reading, setting, storing and downloading in-house of every parameter. Each parameter can be given a security level, ensuring service personnel only have access to parameters allowed by the OEM. Smartphone Apps allow easy visual access at controlled levels (SCS Connect only). Sales and distribution staff can easily see temperature, door opening, and power consumption logs, and can enter maintenance callouts. Service technicians can override sensor inputs and relay outputs diagnostic purposes. Full parameter adjustment and firmware upgrades are also possible.

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