IDRATEK
INTELLIGENT AUTOMATION

SRH-003
Single 10A Fused Relay/LED/Button
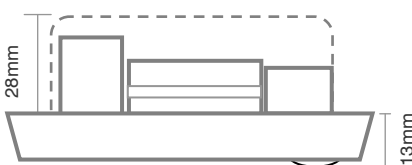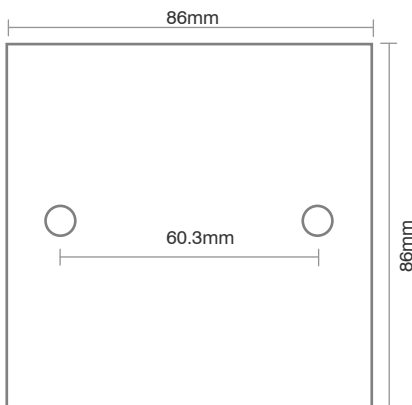# + 2x Digital Inputs
+ 1x Analogue Input

CE

IDRATEK
INTELLIGENT AUTOMATION

The SRH-003 module integrates a number of basic digital input/output elements suited to functions such as appliance control, security system sensors/alarms interfacing, and general purpose high power mains rated switching activities. The Change Over relay contacts allow for arrangements where the switched power falls back to an 'ON' state in the event of network power loss. A potentiometric analogue input allows direct connection of resistive sensors such as thermal floor probes. This enables a one module solution for electric UFH control for example. The switched circuit is protected using a 10A onboard fuse.

Physical
- 1 x Positive Click Push Button Input
- 2 x Non-Isolated Digital Inputs with pulse counting capability
- 1x Analogue input with link selectable 10/57k pullup options
- 1 x Button LED Indicator Output
- Single Relay Output (SPCO fused to 10A/250Vac)
- Green status indicator LED

Functional
- All input and output states can be interrogated at any time
- Highly flexible static output state modification
  eg. WRITE/SET/CLEAR/TOGGLE any group or individual
- Module start-up output states are user programmable
- Powerful programmable dynamic output functions include:
     Single shot: Delay, activity time, post activity state
     Toggle: Period, duration
     PWM: Mark, space, duty cycle
- All Input devices can provide independent event triggers with mode programmable trigger gating:
  Eg: trigger on High->Low, trigger on Low->High, trigger on either transition, trigger and latch
- Module Initialise trigger
- Each event trigger can generate a pre-defined response and/or several user programmable responses.
- Pulse counting capability on digital inputs
- In-situ reprogrammable firmware

Electrical
- Operating voltage 12-15V DC
- Current consumption 7mA (nom), 53mA (max)
- 0V Reference provided for digital inputs
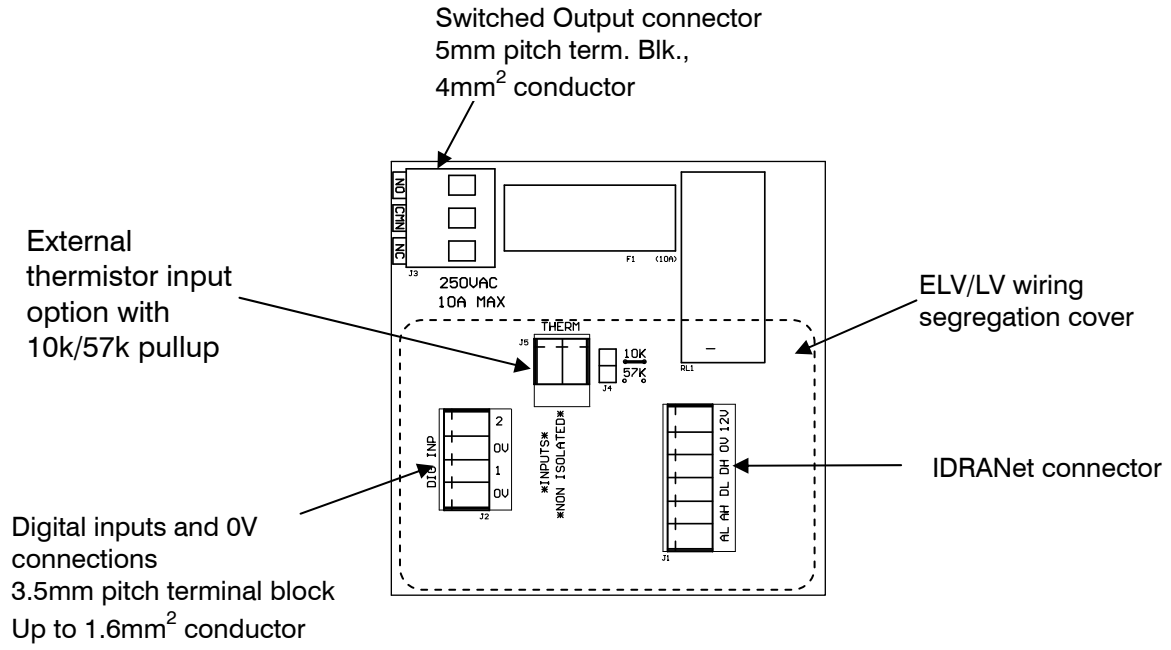- Switching output capacity 10A/250Vac/30Vdc

Environmental
- Operating temperature $-10°C$ to $+45°C$
- Operating humidity 5% to 95% (non-condensing)

Mechanical
- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws
- Protective cover provided for low voltage cables
- Switched connections via 5mm pitch terminal block, up to 4mm^2 conductor cross section.
- Digital input connections via 3.5mm pitch terminal block, up to 1.5mm^2 conductor cross section.

86mm

60.3mm

86mm

28mm

13mm

IDRATEK
INTELLIGENT AUTOMATION

Module Connections

Switched Output connector
5mm pitch term. Blk.,
$4mm^2$ conductor

External
thermistor input
option with
10k/57k pullup

ELV/LV wiring
segregation cover

IDRANet connector

Digital inputs and 0V
connections
3.5mm pitch terminal block
Up to $1.6mm^2$ conductor

Example connectivity

**10A Max
(2.3kW @ 230V)**

External switch inputs

N

L

E.g. 10k probe

IDRANet

SRH-003

IDRATEK
INTELLIGENT AUTOMATION