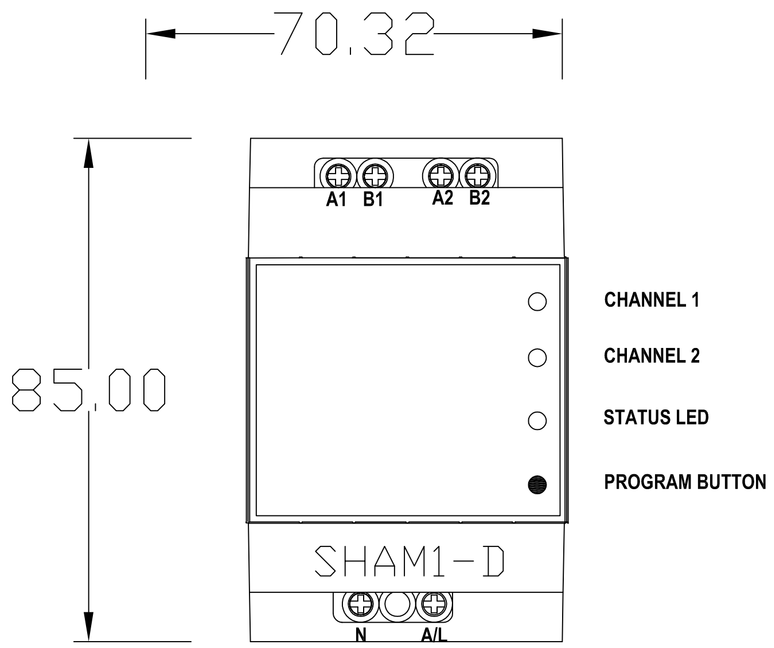
INSTALLATION
The SHAM1-D is designed for indoor use only. To install the SHAM1-D module:
1. Locate a free space on the DIN rail and attach the SHAM1-D.
2. Connect the line and neutral wires to the lower terminal block (see illustration).
3. Connect two wires from the first device to the upper terminal block (see illustration).
4. Connect two wires from the second device (if any) to the upper terminal block (see illustration).



Factory Default Settings
To restore the following default settings put the SHAM1-D into Setup Mode and then press the Program Button ten times rapidly. The Status LED will blink blue and red to indicate that factory defaults have been restored. Press the Program Button twice more to stop the blinking.
Network ID: 255
Unit ID: 15
Network Password: 1234
Receive Components: Link #1 = ON
Link #2 = OFF
Link #8 = Blink

FUNCTION
The Smart Home Ltd SHAM1-D is a high quality home automation appliance controller that is designed for turning appliances and fluorescent lamps on and off based on digital commands received over the power wiring from a remote UPB (Universal Powerline Bus) controller.
Smart Home Ltd (SHL) UPB modules and controllers can be located anywhere in the home. No additional wiring is required and no radio frequency signals are used for communication

OPERATION
The SHAM1-D operates according to commands sent by one or more UPB controllers. It can accept powerline commands from any UPB-compatible transmitter such as SHWMC8, SHATM, Interface Modules, approved Third-Party Controllers and touch screens. The SHAM1-D can be a member of up to 16 scenes with the capability to store a preset relay state (on, off, or blink) for each scene.

CONFIGURATION
Once your SHAM1-D is installed it can be configured either manually or with the SUPerBuilder™ application software.
Manual configuration can be used to add your SHAM1-D device into a UPB network and link it to controller buttons. Refer to the Keypad Controller's Manual Configuration Guide available on the SHL website (www.shlhitech.com) for more details.
Although the factory default operation of the SHAM1-D is useful in many situations, it is highly recommended that your device be configured with the SUPerBuilder software so that you can take advantage of its many configurable features.
SHL has developed a Powerline Interface Module (SHPIM) and the free SUPerBuilder application software to help you configure all of your SHL devices. User Guides are available on the SHL website to explain how to configure your system

Setup Mode
When configuring a UPB system, it will be necessary to place the SHAM1-D into Setup Mode. To do this, press the Program Button (see illustration) rapidly five times. The dual-coloured Status LED will continuously blink blue and red when the device is in Setup Mode. To exit Setup Mode, press the Program Button once or wait five minutes for it to time out.
OPERATION
The SHAM1-D operates according to commands sent by one or more UPB controllers. It can accept powerline commands from any UPB-compatible transmitter such as SHWMC8, SHATM, Interface Modules, approved Third-Party Controllers and touch screens. The SHAM1-D can be a member of up to 16 scenes with the capability to store a preset relay state (on, off, or blink) for each scene.

IMPORTANT SAFETY INSTRUCTIONS
It is imperative that basic safety precautions are followed when using electrical products. These include:
1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Keep the product away from water. If the product comes in contact with water or any other liquid, turn off the circuit breaker and unplug the product immediately.
3. Never use products that have been dropped or damaged.
4. Do not use this product outdoors.
5. Do not use this product for anything other than its intended purpose.
6. Do not connect multiple lamps or appliances that, when combined, exceed the maximum load ratings of the product.
7. To avoid any risk of fire, burns, personal injury or electric shock, install this product out of the reach of small children.
8. Do not cover this product with any material when in use.
9. This product uses grounded plugs and sockets to reduce the risk of electric shock. These plugs and sockets fit only one way. If they do not fit, consult an electrician.

AUTO-OFF Timer
New for Generation 2 is the ability to set a maximum on time. If you forget to shut the appliance off yourself the appliance module will do it for you automatically. The SHAM1-D can be configured to inform the rest of the network when it has automatically turned the appliance off. This allows the SHAM1 to remotely control other devices or update feedback indicators such as LEDs.
TEST Mode
A manual test feature allows the device to be turned on and off locally. To enable the TEST Mode press and hold the Program Button on the SHAM1 for three seconds. The Status LED will blink blue and red simultaneously to indicate TEST Mode. The appliance can now be turned on and off by single-tapping the Program Button. Press and hold the Program Button again for three seconds to exit from TEST Mode.

TYPICAL USES
The SHAM1-D is perfect for controlling non-dimming loads such as:
•Fans
•Pumps
•Low-voltage transformers
•Coffee makers

REV.	DESCRIPTION	DRAWN	APP'D	DATE
A	PRELIMINARY ISSUE	---	---	--/--/05

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PROJECT:
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TITLE:
ELECTRICAL SERVICES
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Example only

DESIGNED :---	VERIFIED : –	--/--/09
DRAWN : ---	APPROVED FOR TENDER : –	--/--/09
SCALE : ---	APPROVED FOR CONSTRUCTION : –	--/--/09

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