

DPMI940

DyNet Auxiliary Input Interface Installation Manual



features

- **4 x Dry Contact Inputs** – Presented on a 2mm pitch 160mm long ribbon cable.
- **1 x RS485 DyNet Port** - Available on a 5 way terminal block with maximum conductor size of 2mm.
- **Powered from the DyNet Network** – No need for an external power supply.
- **Simple Installation** - Compact enclosure allows the device to be conveniently placed near the device to be controlled. All connections are accessible without disassembly
- **Motion Detector Mode** - Allows easy connection of third party motion detectors to the DyNet RS485 network.

important notes

Read Instructions – We recommend that you read this Instruction Manual prior to commencement of installation.

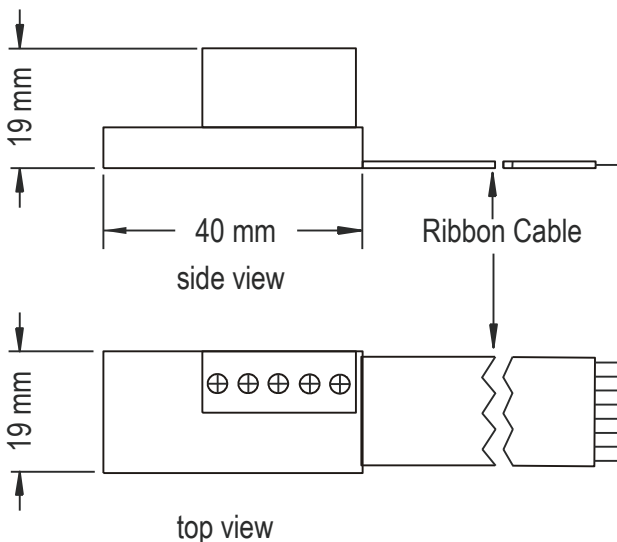
Special Programming – This device will only operate in basic modes unless programmed via a computer. If programming is required, contact your local agent for details. The factory default settings are Area 1 Presets 1, 2, 3 and 4.

Installation Location – Install in a dry location, close to the equipment to be interfaced with.

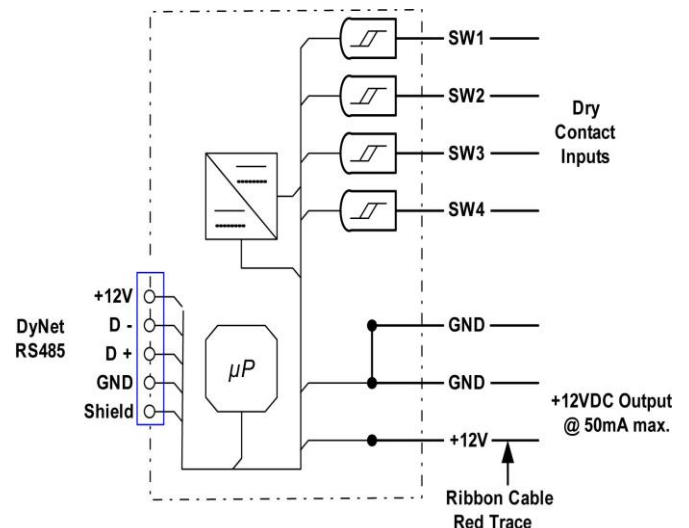
Cable Length – Cable to the ribbon cable flying leads should not exceed 1000mm long.

RS485 Data Cable – Use screened, stranded RS485 data cable with three twisted pairs. Segregate from mains cables by 300mm minimum. Connect devices in a 'daisy chain'. A data cable that is connected to an energised device is live. Do not cut or terminate live data cables.

mounting details



electrical diagram



connecting data cables

Use a screened, stranded RS485 data cable with three twisted pairs.

Connect data cable to devices in a 'daisy chain'. Start at the first device, then loop in and out of devices, with a single cable termination at the last device.

The data cable should be segregated from any Mains Cables. If the Data Cable has to cross over mains cables, it should do so at a 90° angle.

A data cable that is connected to an energised dimmer is live. Do not cut or terminate live data cables.

connecting to a motion detector

Connect Ground and +12V leads to the motion detector's 0V & +12V terminals.

Connect Ground and Switch 1 leads to the motion detector's Alarm terminals.

Connect Ground and Switch 4 leads to the motion detector's Tamper terminals.

connecting volt free inputs

Inputs: 7 core Flat Ribbon Cable

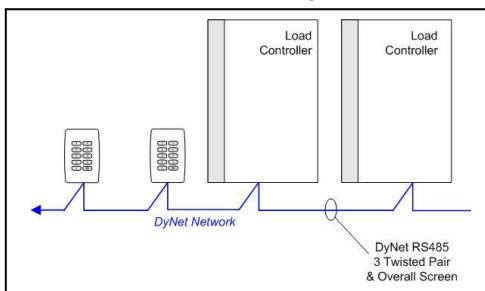
Flying Lead inputs

Pin	Function	Colour
1	+ 12V	Grey with Red Trace
2	Ground	Grey
3	Ground	Grey
4	Switch 1	Grey
5	Switch 2	Grey
6	Switch 3	Grey
7	Switch 4	Grey

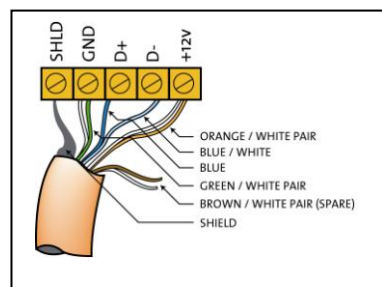
To trigger a preset place a short between SW 1, 2, 3 or 4 to the Ground. The +12V terminal is provided to power 3rd party devices such as motion detectors, ensure that it does not touch any other terminal of the device.

connecting RS485 data cable

Connect Data Cable in a 'Daisy Chain'



Serial Cable Permanent Connections



recommended cable colour coding

Green/White Pair
Orange/White Pair
Blue/White Pair

paralleled for GND
paralleled for +12V
Blue for DATA+
White for DATA-

recommended cable types

Belden:	9503	Dynalite:	DYNET-STP-CABLE
Garland:	MCP3S	M&M cable:	B9503CS
Hartland:	HCK603	Multicables:	AWME120236209220
M&M Cable:	B2003CS	RS Components:	368-687

product specifications

RS485 Serial Port:	1 x RS485 unterminated DyNet, consisting of 1 x 5 way terminal block, for permanent connections.
Inputs:	1 x Presented on a 2mm pitch 160mm long ribbon cable
Internal Controls:	Programmable Logic Controller
Operating Environment:	0° to 50°C ambient temperature, 0% to 95% RH non condensing
Power Consumption:	15mA from the DyNet network
Compliance:	CE, C-Tick
Construction:	Bare circuit board with heatshrink cover
Dimensions:	H 19mm x W 40mm x D 19mm
Weight:	15.5 grams