

IR Receiver Infranet RS485



Installation and Operating Instructions



Model Numbers:

- 122001 - Terminal Block Plug connector
- 122002 - RS485 Connector

Specifications:

DC Power Requirement:	+12VDC +/-10% regulated at 15mA
Network:	RS485 (twisted pair recommended)
Nodes per Network:	RS485 127 nodes max.
Network Length:	1000 m maximum
Infrared Coverage:	30 m ² per IR Receiver, or 6 m maximum spacing between adjacent IR Receivers
Ambient Operating Temp:	0 - 55°C
Environmental Rating:	IP30

Features:

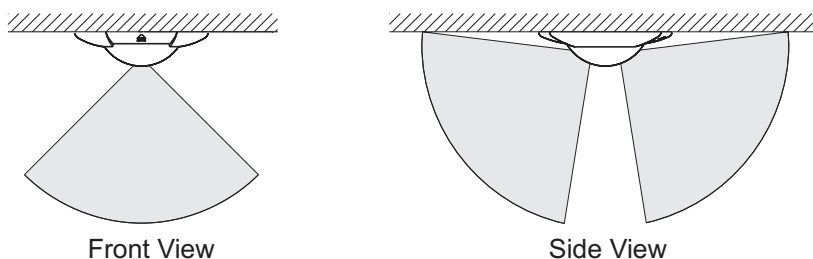
The Tara® Infranet IR Receiver RS485 is a network device providing infrared reception of Infranet IR commands. This unit serves as a gating device to convert the IR command to a network command on the RS485 network.

No user programming/setup is required with this device. In medium sized rooms, a single IR Receiver Unit will provide complete non-directional IR coverage. In larger areas, several units should be installed to provide complete IR coverage.

Easy to use diagnostic functions are provided to make installation and troubleshooting worry free.

The IR Receiver has two IR Receiver ICs. The optimal infrared reception geometry is shown in the diagrams below.

Optimal Infrared Reception Angles



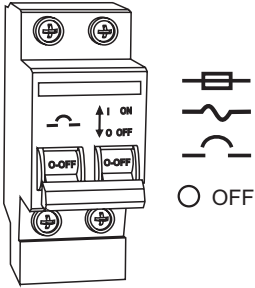
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WARNING: The routing and connection of a Tara® Infranet Network should only be attempted by a suitably qualified electrician or other qualified person. Incorrect installation of the IR Receiver Units may cause damage when power is applied.

1 Isolate power

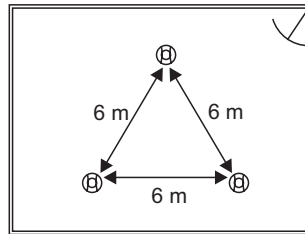


Disconnect power at the main switch board (by switching off circuit breaker or removing fuse).

2 Locate desired IR Receiver positions



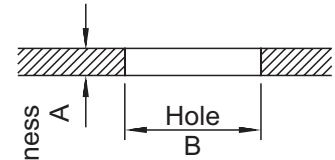
for small rooms locate opposite switch/es if possible



for large rooms maximum 6 metre spacing

Locate and mark out desired IR Receiver positions.

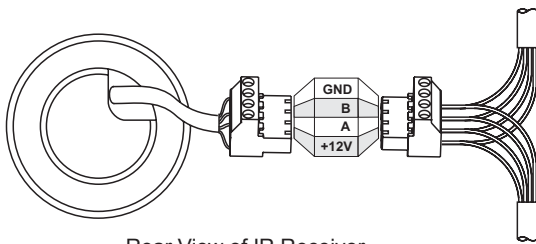
3 Cut Holes



A Panel Thickness	B Hole Size
3 - 6 mm	Ø 32 mm
7 - 14 mm	Ø 35 mm
15 - 25 mm	Ø 38 mm

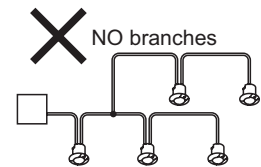
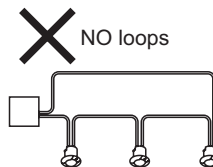
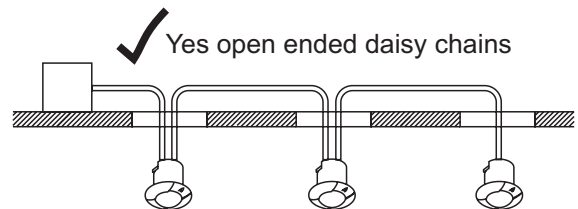
Cut holes to suit panel thickness.

4 Run Cables and Connect

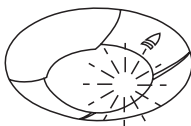
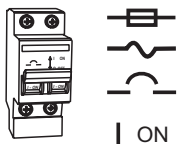


Rear View of IR Receiver

Connect IR Receivers to the RS485 network with open ended chains with out loops or branches.



5 Power Up



LEDs will flash

Check wiring thoroughly, activate network and power up.

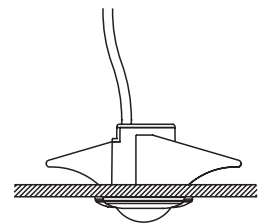
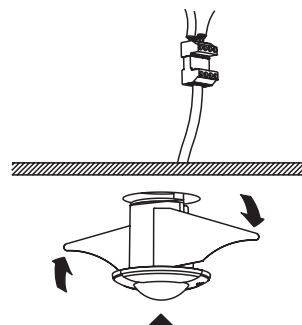
6 Diagnostics

Suitable Diagnostic Devices
 - TARA Infranet TechAid
 - TARA InfraMonitor/Pro
 - TARA InfraLink PC Interface plus Easy IR-Net Windows™ software.



Perform diagnostics to confirm correct operation.

7 Final Fitment



Install units into holes by compressing 'wings'. Face arrows toward transmitting devices (switches, MBP, ABP etc) for optimal performance.

WARRANTY

This product is guaranteed for 3 years from the date of purchase against any defects in materials or workmanship used in or associated with the manufacture and assembly of the equipment. The guarantee applies only to the original owner and is not transferable.

The guarantee does not cover failure due to accidental damage, lightning strike, misuse, short circuited, loading beyond rating, negligence or any alteration whatsoever to the form or content of the equipment. The guarantee becomes null and void if any adjustment, part replacement or repair is carried out by any person other than an authorised service agent.

The purchaser shall be responsible for any expenses involved in making the equipment readily accessible for servicing, and where the equipment is installed outside the capital city metropolitan area of the retailer, for any travelling expenses and any costs for transporting the equipment or parts thereof to and from the retailer or service branch. The purchaser must produce proof of the date of purchase together with this guarantee when making a claim. The retailer or service branch. The purchaser must produce proof of the date of purchase together with this guarantee when making a claim.

TARA Holding Pty. Ltd. reserves the right to change designs or specifications described in this manual without obligation and without notice.

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