Overview

Connected to a CTR (Dalilon Range) or to an IRC (Karno Range) through the LonWorks Network, the ITR module is designed to offer 4 additional RJ9 inputs for receivers, multi sensors or push-button interfaces.

Also a receiver for infrared or radio remote controls, the ITR Module transmits the received information to the LonWorks network through its 4 room managers.

The integration of the ITR Module to a BMS allows Blinds and HVAC information transmission through their associated variables.

The ITR Module is fully compatible with all Dalilon® infrared or radio accessories through a direct RJ9 connection.

Operating Diagram
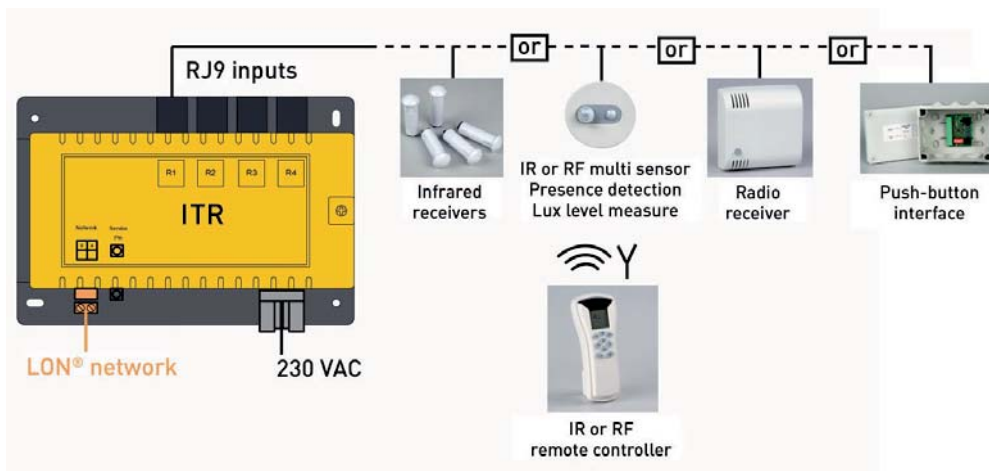
Designation

Designation	Name
ITR	Interface 230VAC 4 infrared and / or radio channels

Inputs

The 4 RJ9 digital inputs can be used with:
- Infrared receivers
- Radio receivers
- Multi sensors
- Push-button interfaces
- Switches

Power supply

Power supply of ITR module: 230VAC, 50/60 Hz, +10% -15%.
Self-protected transformer.

Environmental conditions

Operating temperature: +5°C à +45°C
Storage temperature: -20°C à +70°C
Humidity: +20% à +90% without condensing
Security : EN60669-2-1 (being validated)
EMC: complies with EN61000-6-x and EN61000-4-x

Networks

FTT10a (Free Topology Transceiver), 78 kbps, twisted pair.

Devices compatibility

The ITR module is compatible with the Dalilon® lighting and sunblind controllers, Karno® HVAC room controllers and with the Dalilon® accessories as follows:

Reference	Description	ITR
RIR-I ou RIR-B	Infrared receiver	X X
RIR-L	Infrared receiver and lux level sensor	X
MS-P **MS-PL** **MS-PLT**	Infrared multi sensor (old generation) -P: presence detector -L: lux level -T: temperature	X X X
MS2-x-P **MS2-x-PL** **MS2-x-PLT**	Infrared or radio multi sensor -P: presence detector -L: lux level -T: temperature	X X X
TCIR-L	Infrared remote controller: 2 light circuits control Occupancy mode	X

|		
TCND-I	Infrared remote controller: Lighting, sunblind, HVAC functions Occupancy mode	X
TCND-IT	Infrared remote controller: Lighting, sunblind, HVAC functions Temperature measurement Occupancy mode	X
RFR-D (R1 only)	Radio frequency receiver (1 receiver for 4 remote controllers)	X
TCND-R	Bi-directional radio remote controller: Lighting, sunblind, HVAC functions Occupancy mode	X
TCND-RT	Radio remote controller: Lighting, sunblind, HVAC functions Occupancy mode Temperature measurement	X
WMS-PB-8DI	Push-button / switches interface	X

Other characteristics

1) Signage LED: LED power supply traffic.
   LED network traffic.
2) "Pin service": directly accessible by push button on front.

Installation

Mounting on DIN rail or by screwing, 4 (6.5x20mm) holes at each corner (please, see mechanical drawing below).
Installation precaution: on metal plate or cable support connected to the earth.

Mechanical drawing

Transparent yellow cap made of polycarbonate, IP20.
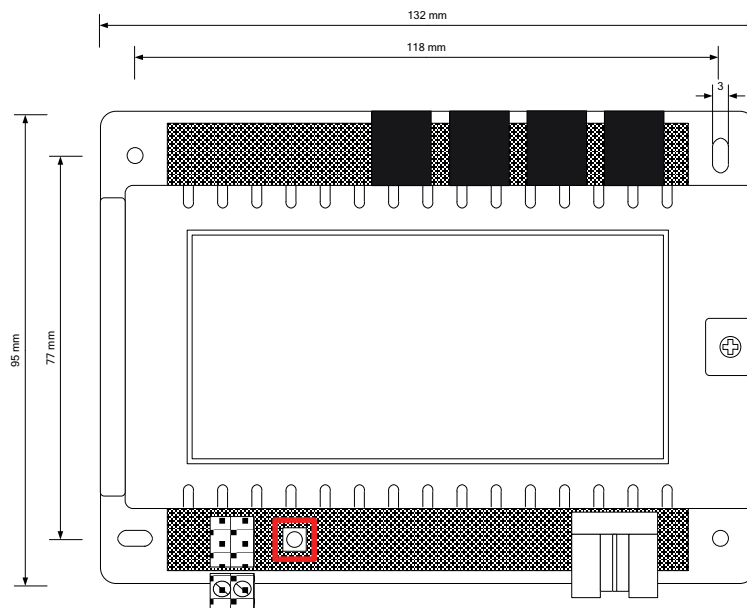
Connectors and wiring

All the infrared or radio receivers and multi sensors are connected through a RJ9 digital link to the ITR.

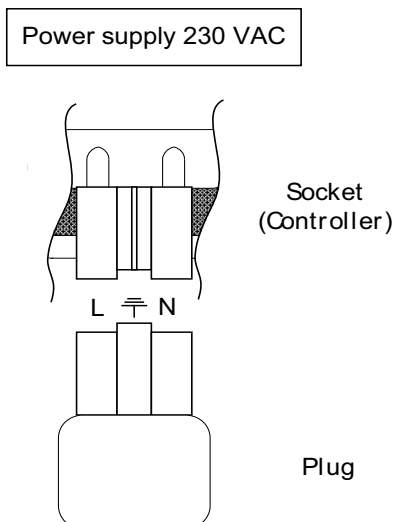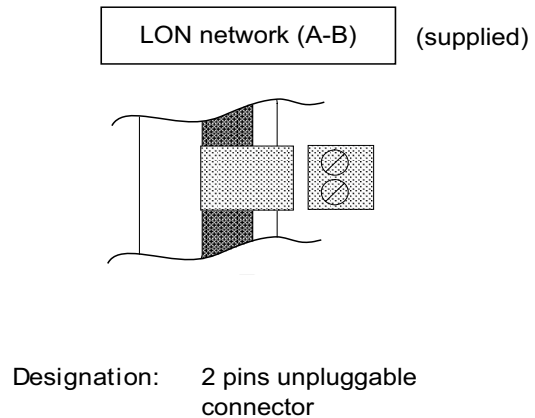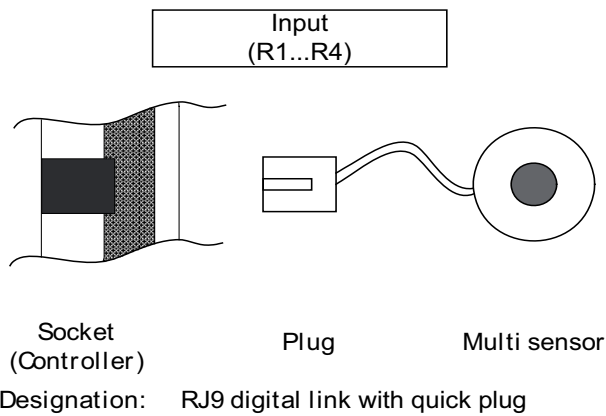|	RJ9-RJ9
5 meters cable	CBL-05
8 meters cable	CBL-08
12 meters cable	CBL-12
40 meters cable	CBL-40

Note:
Maximum length for RIR-B and RIR-l: 40 m (please contact us)
Maximum length for RIR-L and MS-P, MS-PL, MS-PLT: 12 m
Maximum length for MS2-x: 50 m

All the connectors below are recommended for the electrical installation. Only the LON® network connector is supplied.

Input
(R1...R4)

Socket
(Controller)   Plug   Multi sensor

Designation: RJ9 digital link with quick plug

LON network (A-B)   (supplied)

Designation: 2 pins unpluggable connector

Power supply 230 VAC

Socket
(Controller)

L ⏚ N

Plug

Name :   Wieland GST18i3 connector, female 3 pins
Reference :   92.031.3258.1
              99.400.5802.2 (with cable-lock)