

The power supply R-RPA can be used for new RRU 4000 and ARU 3000 reader family.



> General specifications

| | | |
|-----------------------------|--------|--|
| Order No. | | 52010369 |
| Type | | R-ETH-SW-100 |
| Input | | |
| Voltage range | [V DC] | 18 - 57 |
| DC current (at 24 V DC) | [A ~] | typ. 6.2 |
| Connector | | RJ45 |
| Operating temperature range | [°C] | -40 to +75 |
| Storage temperature range | [°C] | -40 to +85 |
| Weight | [kg] | 0.685 |
| Dimensions | [mm] | 117 x 85 x 55 |
| EMC standard | | EN 55022 class A |
| Standards | | CE, UL |
| Interface | | |
| Interface 1 | | Ethernet |
| No. of ports | | 5 (4x PoE ports, 1x 10/100 port) |
| Connection method | | RJ45 socket |
| Transmission physics | | Ethernet RJ45 |
| Transmission speed | | 10/100 Mbps |
| Transmission length | | 100 m (Between transmitter / receiver) |
| Signal LEDs | | LNK/ACT, 100, PoE |

> Usable with the following readers

| RRU 4000 Reader Series | Order No. | Type |
|------------------------|---------------------|------------------------------|
| | 52010287 + 52010295 | RRU 4400 Reader Unit |
| | 52010288 + 52010296 | RRU 4500 Reader Unit |
| | 52020289 + 52010297 | RRU 4560 Reader Unit |
| | 52020290 + 52010298 | RRU 4570 Reader Unit |
| ARU 3000 Reader Series | Order No. | Type |
| | 52010291 + 52010299 | ARU 3400 Antenna Reader Unit |
| | 52010292 + 52010300 | ARU 3500 Antenna Reader Unit |
| | 52010293 + 52010301 | ARU 3560 Antenna Reader Unit |
| | 52010294 + 52010302 | ARU 3570 Antenna Reader Unit |

> Remarks

Accessories optional

- All accessories can be found at: <http://www.kathrein-solutions.com/products/hardware/accessories>

➤ **Power over Ethernet switch**

Description

The FL SWITCH 1001T-4POE is a power over Ethernet (PoE) switch. The switch meets the IEEE 802.3at specification and can supply up to 34.2 W from the four PoE+ ports. With one standard port and four PoE+ ports, the switch is ideal for connecting PoE devices to a standard network.

Ports, switch and LEDs (Fig.1)

| Ports | Switch and LEDs |
|-------|-------------------------------------|
| 1 | PoE RJ45 ports |
| 2 | Standard RJ45 port |
| 3 | LEDs |
| 4 | Power supply/remote alarm connector |

PL SWITCH 1001T-4POE (2891064)

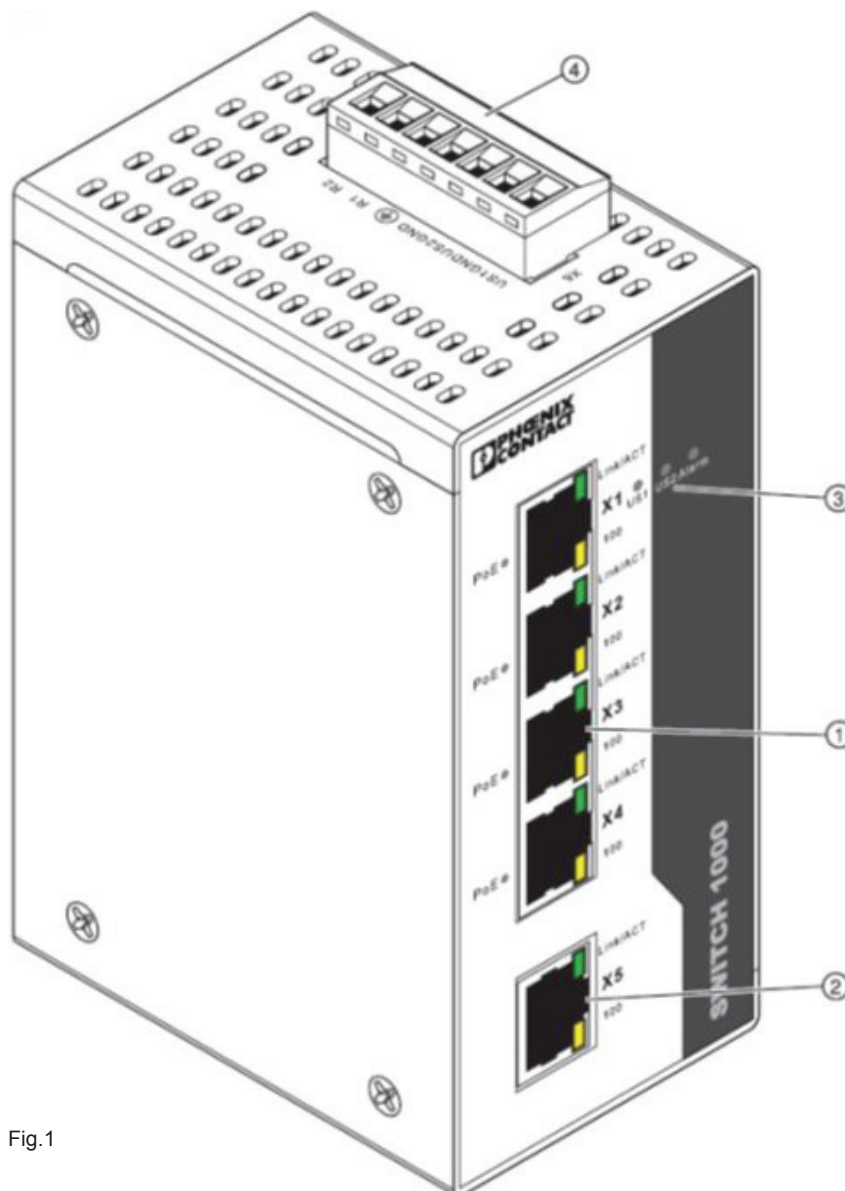


Fig.1

> Diagnostic and status indicators

Port LEDs

If the "LINK/ACT" LED is lit, link is active.

If the "LINK/ACT" LED is flashing, data traffic is present.

If the „PoE“ LED is lit, the port is supplying power to a device.

If the "100" LED is lit, the port is operating at 100 Mbps. Otherwise, the port is operating at 10 Mbps.


Switch LEDs

| | On | Off |
|---------|-----------------------|--------------------------|
| US1/US2 | Power is present | Power is not present |
| Alarm | US1 or US2 is missing | Both power inputs are ok |

RJ45 pin assignment

| Pin | Assignment | Funktion |
|-----|------------|----------|
| 1 | RX/TX | Data |
| 2 | RX/TX | Data |
| 3 | TX/RX | Data |
| 4 | PoE* | 57 V DC |
| 5 | PoE* | 57 V DC |
| 6 | TX/RX | Data |
| 7 | PoE* | 0 V DC |
| 8 | PoE* | 0 V DC |

* PoE pins are unused in standard RJ45 ports

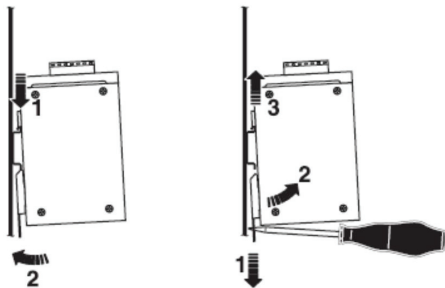
 Never connect a PoE port on one switch to the PoE port on another switch. Damage to the switch may occur.
 When connecting two FL SWITCH 1001T-4POE switches, always use the standard port (X5) on one of the switches.

> Installation

i This device is designed for SELV and PELV operation according to IEC 61140/EN 61140.

Assembly/removal

Position the device on the upper edge of the DIN rail and snap it into place with a downward motion. Pull the release lever open using a screwdriver. Rotate the device upward and remove from DIN rail.



Power supply

The switch can be connected to a single power source (Fig.4) or two power sources (Fig.5) for redundancy.

Snapping the switch onto a grounded rail connects it to the ground potential.

In an environment particularly prone to EMI, noise immunity can be increased through the additional ground connections on the power connector.

! Protective ground is through the DIN rail.

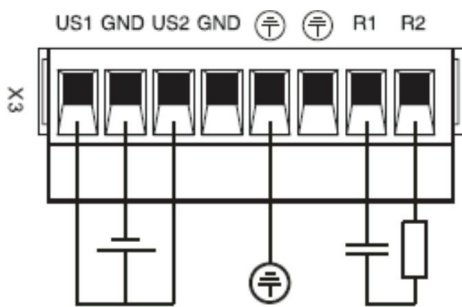


Fig.4

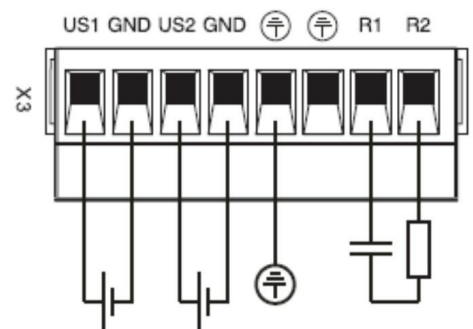


Fig.5

Alarm contacts

Connect the alarm contacts (R1 and R2) to an appropriate monitoring device. If either power supply fails ($\leq 12\text{ V}$), the internal dry contacts close.

i The user is responsible to provide a suitable power source for the alarm contacts.