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

KATHREIN

> 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)

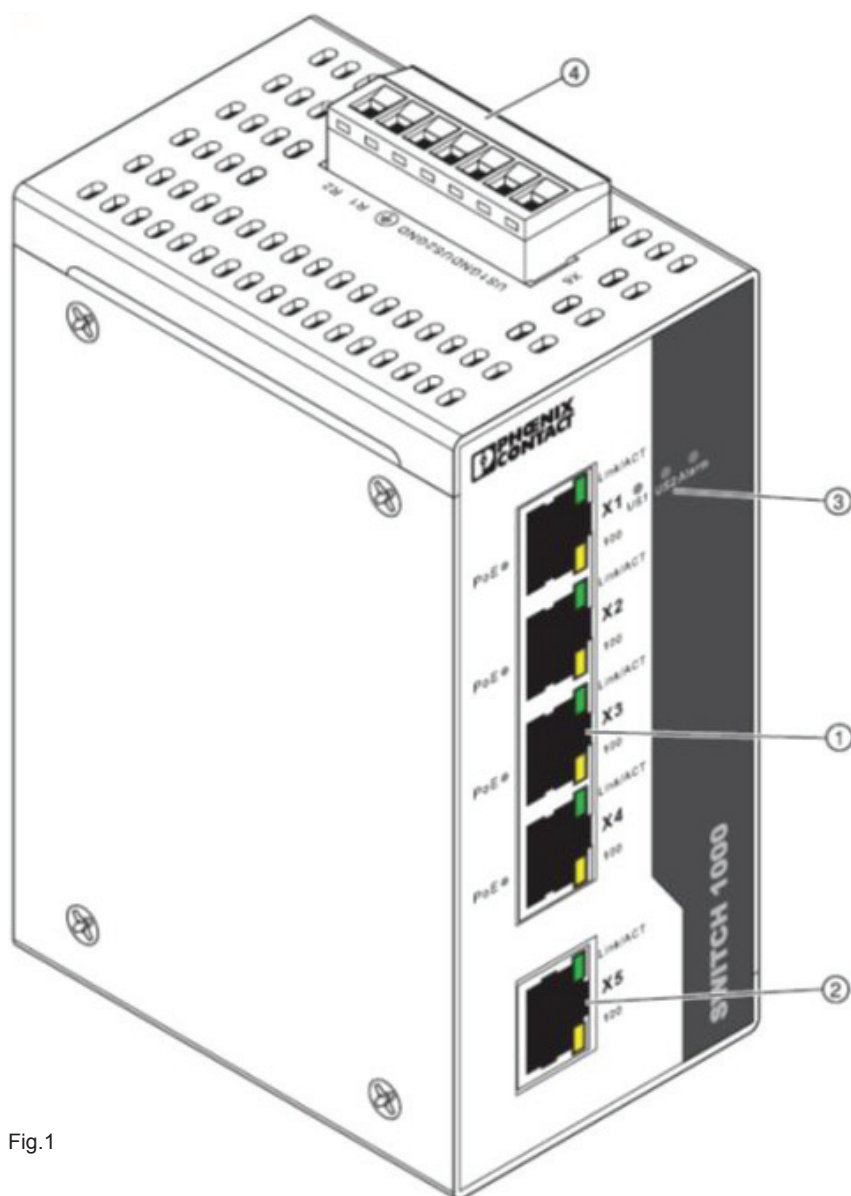| Ports	Switch and LEDs
1	PoE RJ45 ports
2	Standard RJ45 port
3	LEDs
4	Power supply/remote alarm connector

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.
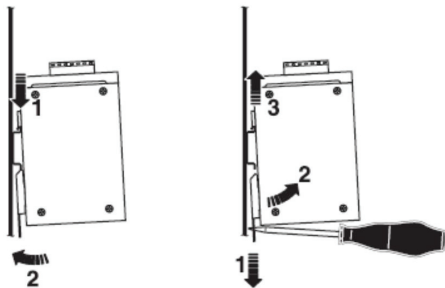
Power supply

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.
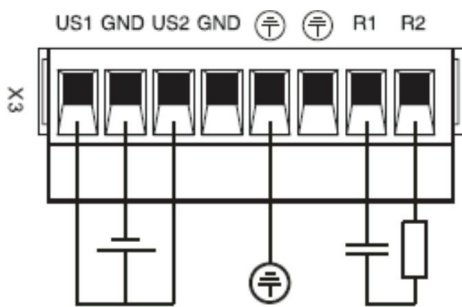
[!] Protective ground is through the DIN rail.

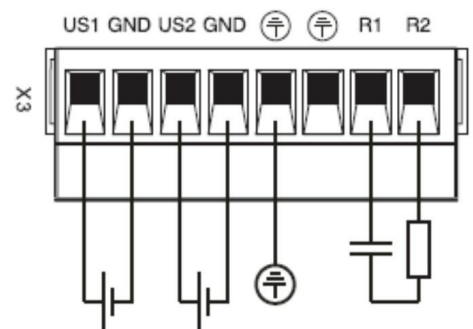Fig.4   Fig.5

Alarm contacts

Connect the alarm contacts (R1 and R2) to an appropriate monitoring device. If either power supply fails (≤12 V), the internal dry contacts close.

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