

Pace1KRL12S

10Base-T1L, IEE802.3cg Ethernet Media Adaptor/Power Splitter Kit



Altronix Pace1KRL12S is SPE (Single Pair Ethernet) media adaptors/splitters kits that enable connecting 10Base-T1L, IEE802.3cg compliant devices such as Security/Industrial/BMS/Elevators/HVAC Controllers and sensors, etc. to an Ethernet network. The kit provides T1L data & 12V power separately to power the remote device, thus eliminating the need for local power. Long distance headend to remote-end device cabling can be achieved to over 1km (1,000m, 3,280 ft.).

In addition to new SPE (UTP) Ethernet network installations, upgrading of legacy networks, i.e. LONworks, RS485, 4-20ma Control Loops, etc. can be achieved by using the existing two wire cabling, thus saving rip-out & reinstallation costs.

Operationally, the Pace1KR passes network data & POE power from the POE switch via UTP up to 1km (1,000m, 3,280 ft.) to the Pace1KL12S, which then passes the T1L data to the device and separately provides 12V power to the device.

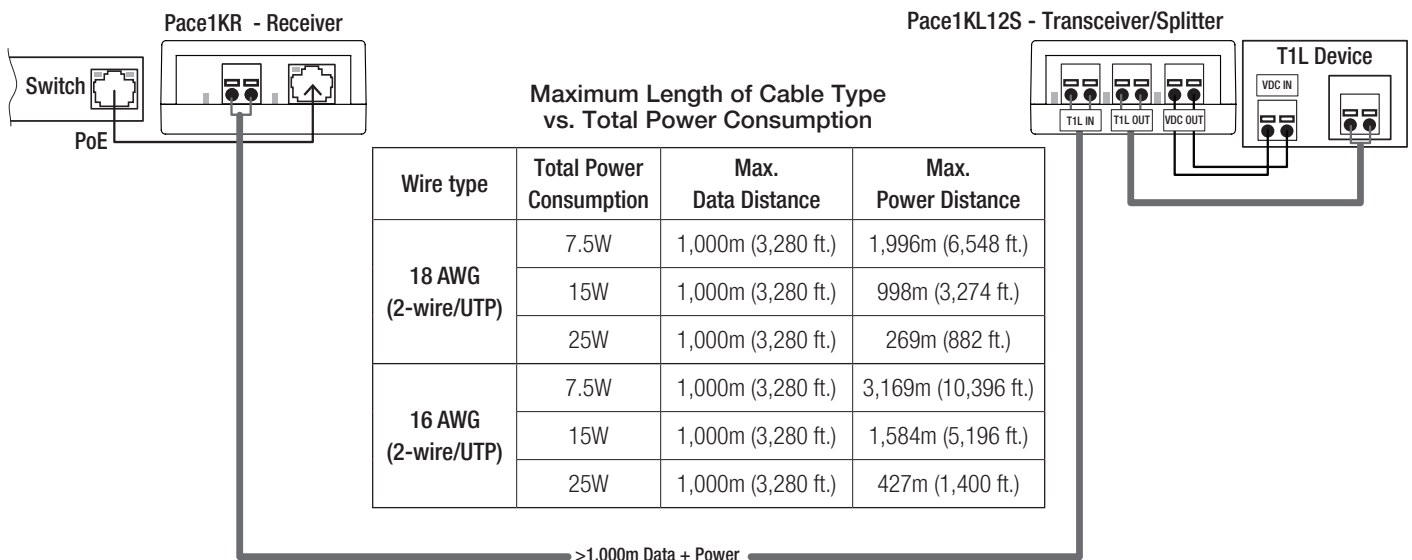


Pace1KL12S

Key Features

- Provides SPE (single pair Ethernet) over twisted pair (2-wire, UTP or shielded) or 16/2 AWG or higher wire up to 1km (1,000m, 3,280 ft.)
- Utilize twisted pair for new installations or retrofit of IP devices over existing twisted pair cabling
- 10Base-T1L, IEE802.3cg protocol; Data Speed: 10Mbps
- Provides 12VDC to power compatible devices
- Extends Network link distance in an industrial environment and provides Aux. power to device
- Building Automation, Surveillance & Security, BMS & HVAC, Elevators
- CE European Conformity
- Lifetime Warranty

Typical Operation Diagram



Lifetime Warranty

Specifications**Input**

| | |
|--------------------|--|
| Pace1KR: | Powered by midspan or endspan PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (25W) |
| Pace1KL12S: | Powered by Pace1KR |

**SPE (Single Pair Ethernet) over UTP or
16/2 AWG or Higher Link**

| | |
|------------|--|
| Wire type: | Twisted pair (2-wire, UTP or shielded) |
| Distance: | > 1km (1,000m, 3,280 ft.) @ 10Mbps |

Power Output

Pace1KL12S: 20W
Available power depends on distance & wire gauge
See Altronix online voltage drop calculator & allow for
10V cable drop

Indicators (LED)

| | |
|--|--|
| Pace1KR: | |
| Link LED: | Green, PoE Active (left of UTP link) |
| Link LED: | Green, Active Indicate Data transmission |
| Yellow and Green LED Next to Ethernet link: | IP Link status, 10/100Base-T/active |
| Pace1KL12S: | |
| Red LED: | Output power ON |

Agency Listings

| | |
|----|---------------------|
| CE | European Conformity |
|----|---------------------|

Physical and Environmental**Dimensions (W x L x H)**

| | |
|-------------------------------------|---|
| Enclosure (Pace1KR and Pace1KL12S): | 2.5" x 3.8" x 1" (63.5mm x 96.5mm x 25.4mm) |
| Shipping: | 8" x 6" x 5" (203.2mm x 152.4mm x 127mm) |

Weight (approx.)

| | |
|-----------|-------------------|
| Product: | 0.4 lb. (0.18 kg) |
| Shipping: | 1 lb. (0.45 kg) |

Temperature

| | |
|------------|---------------------------------|
| Operating: | - 40°C to 75°C (- 40° to 167°F) |
| Storage: | - 40°C to 75°C (- 40° to 167°F) |

Relative Humidity 85% +/- 5%

Operating Altitude - 304.8 to 2,000m

Lifetime Warranty