

Pace1KL12S and Pace1KL24S

10Base-T1L, IEE802.3cg Ethernet Media Adapter/Power Splitters



Altronix Pace1KL12S and Pace1KL24S are SPE (Single Pair Ethernet) media adapters/splitters that enable connecting 10Base-T1L, IEE802.3cg compliant devices such as Security/Industrial/BMS/Elevators/HVAC Controllers and sensors, etc. to an Ethernet network. When used in conjunction with Pace1KR or Pace4KR(Q) receivers, the units provide T1L data & 12V or 24V 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 or Pace4KR(Q) receiver passes network data & PoE power from the PoE switch via UTP up to 1km (1,000m, 3,280 ft.) to the Pace1KL12S or Pace1KL24S, which then passes the T1L data to the device and separately provides 12V or 24V power to the device.

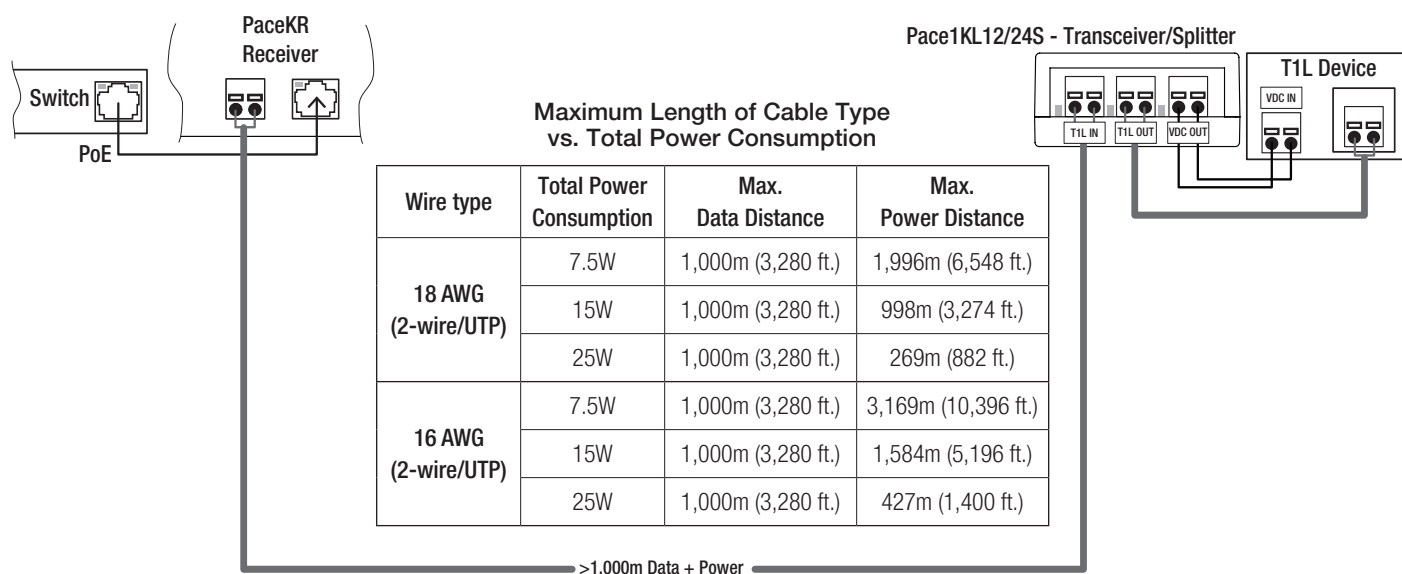


Pace1KL12S and Pace1KL24S

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 or 24VDC 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
- UL Listed in the U.S. and Canada
- CE European Conformity
- Lifetime Warranty

Typical Operation Diagram



Lifetime Warranty

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Specifications

Input

Powered by Pace1KR or Pace4KR(Q) receiver

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

Pace1KL24S: 20W

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

Indicators (LED)

Red LED: Output power ON

Agency Listings

UL/cUL	UL 62368-1 (Audio/Video, Information and Communication Technology Equipment)
CE	European Conformity

Physical and Environmental

Dimensions (W x L x H)

Enclosure: 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:	0.22 lb. (0.1 kg)
Shipping:	0.4 lb. (0.18 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

Accessories



DCL2 - DIN Rail Mounting Clip

Allows for easy installation of Altronix adapters utilizing screw mounting holes to mount on a standard DIN rail (Altronix Din Rail models D10, D12, D19, or D24).

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