Applied Concepts
INNOVATION IN POWER CONVERSION TECHNOLOGY

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ACR-2925

14.08" DUAL MODE LED RAIL

08/07/18

(Day LEDs: Dual Bank, 81V @ 91.25mA)
(NVIS LEDs: Single Bank, 64V @ 7.5mA)

GENERAL DESCRIPTION

The ACR-2925 is designed as a replacement for 15.6" LED displays.

The rail uses high performance LEDs capable of Day and NVIS White operations.

The rail requires the use of a constant current source to properly drive the LED's.

The LED rail is compatible with any of ACI's I-Drive series of LED Drivers.

MECHANICAL / ENVIRONMENTAL

Weight = 3 grams

Altitude = 35,000 Ft maximum

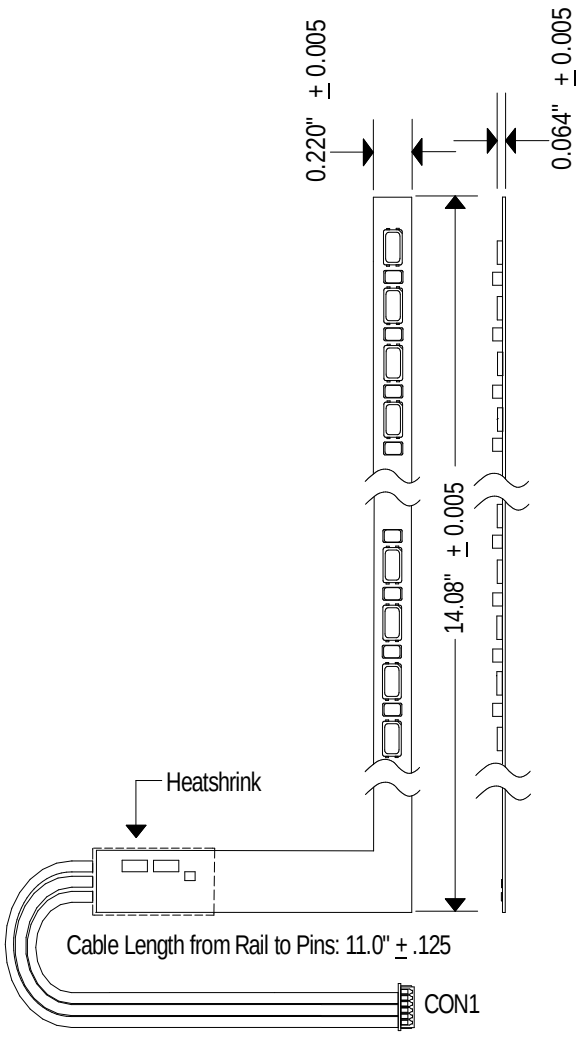
Humidity < 95% non-condensing

Size (L x W x H) = 14.08 IN x 0.220 IN x .064 IN

Flex Foil thickness = 0.007 IN

Input connector = CON1

RoHS compliant



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DAY MODE

MAXIMUM RATINGS

08/07/18

Symbol	Parameter	Value	Unit
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	LED Rail storage temperature	-40 to +100	Deg-C
Ifwd	Maximum LED forward current (DC)	110	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

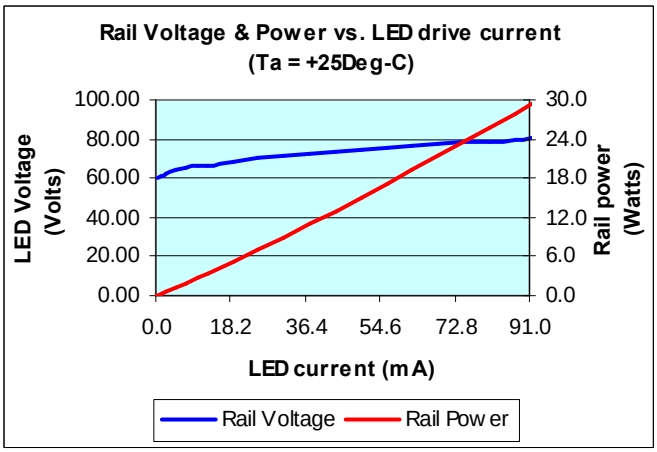
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA	14.1		18.1	cd
X	White X coordinate			0.280		
Y	White Y coordinate			0.295		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 91.25mA (2 bank per rail), Tled = +75Deg-C (LED's with heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		73	81	89	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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NVIS MODE

MAXIMUM RATINGS

08/07/18

Symbol	Parameter	Value	Unit
Tled	Operating temperature of LED edge light (light rail contact)	-40 to +85	Deg-C
Tstg	LED Rail storage temperature	-40 to +85	Deg-C
Ifwd	Maximum LED forward current (DC)	9	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 20mA			30	mcd
X	White X coordinate			0.300		
Y	White Y coordinate			0.400		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 7.5mA (1 bank per rail), Tled = +75Deg-C (LED's without heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		58	64	70	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS