Applied Concepts
INNOVATION IN POWER CONVERSION TECHNOLOGY

397 Route 281
Tully, New York 13159-1175
Phone: 315 696-6676
Email: sales@acipower.com
www.acipower.com

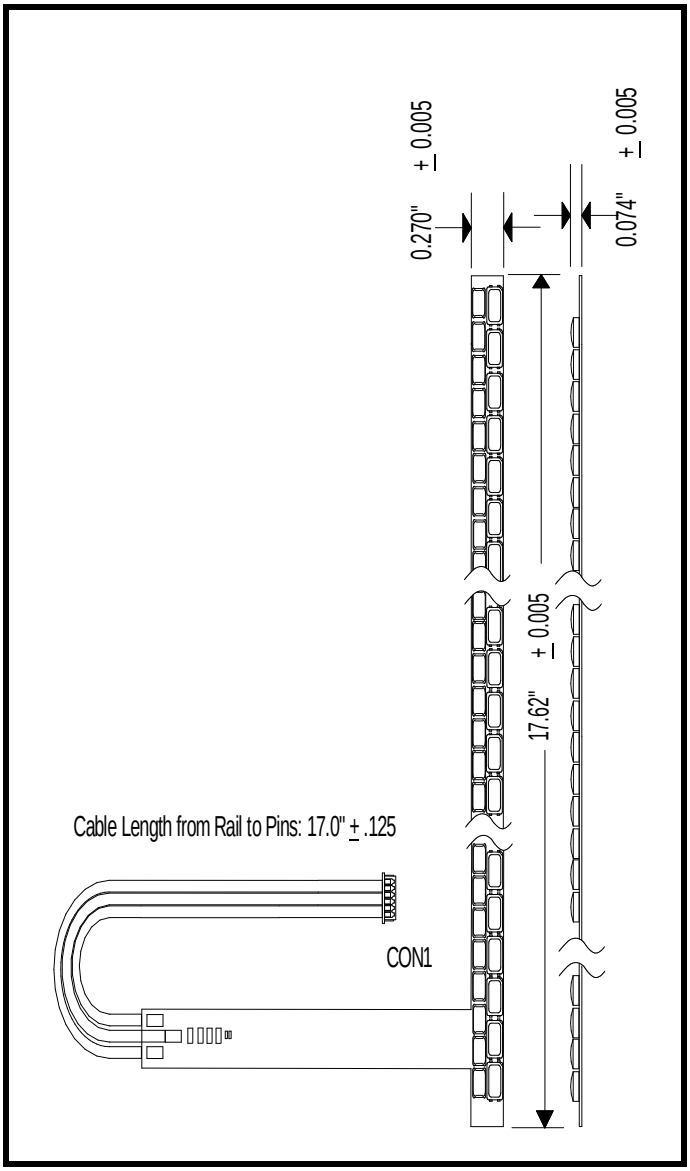
ACR-3137

PRODUCT DATA SHEET

17.62" DUAL MODE LED RAIL

2/14/2022

(Day LEDs: Quad Bank, 82V @ 75mA)
(NVIS LEDs: Dual Bank, 96V @ 6.25mA)



GENERAL DESCRIPTION

The ACR-3137 is designed as a replacement for dual rail, dual edge lit 21.3" 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 dual mode I-Drive series of LED Drivers.

MECHANICAL / ENVIRONMENTAL

Weight = 6 grams

Altitude = 35,000 Ft maximum

Humidity < 95% non-condensing

Size (L x W x H) = 17.62 IN x 0.270 IN x 0.074IN

Flex PCB thickness = 0.007 IN

Input connector = CON1

RoHS compliant

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DAY MODE

MAXIMUM RATINGS

2/14/2022

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)	90	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

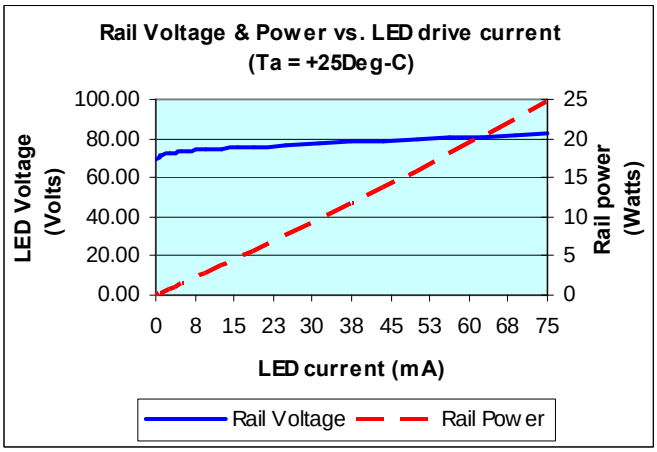
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA		21.4		cd
X	White X coordinate			0.265		
Y	White Y coordinate			0.260		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 75mA (4 banks per rail), Tled = +75Deg-C (LED's heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		74	82	90	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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PRODUCT DATA SHEET

NVIS MODE

MAXIMUM RATINGS

2/14/2022

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)	7.5	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 25mA			200	mcd
X	White X coordinate			0.280		
Y	White Y coordinate			0.320		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 6.25mA (2 banks per rail), Tled = +75Deg-C (LED's heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		86	96	106	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS