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ACR-3129

PRODUCT DATA SHEET – PAGE 1 OF 3

19.20" DUAL MODE LED RAIL

(Day LEDs: Quad Bank, 92V @ 66.25mA)
(NVIS LEDs: Quad Bank, 65V @ 25mA)

10/20/2021

GENERAL DESCRIPTION

The ACR-3129 is designed as a replacement for dual rail, dual edge lit 21.5" 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

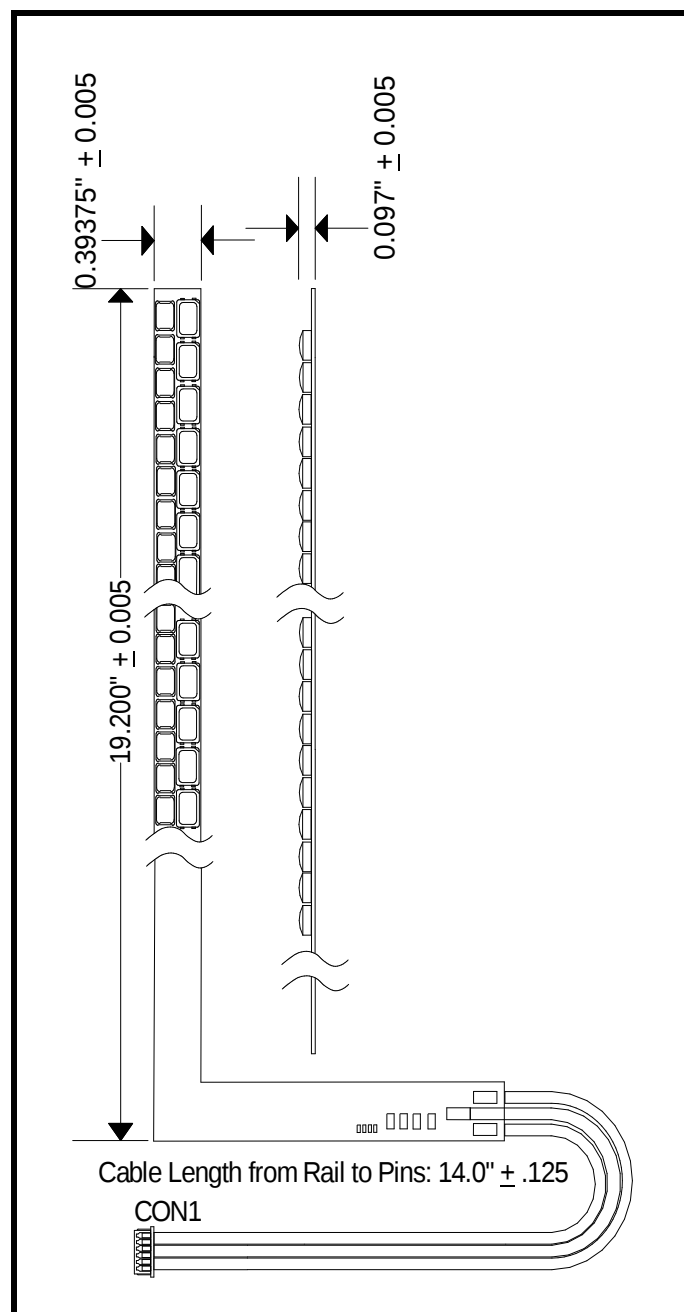
Humidity < 95% non-condensing

Size (L x W x H) = 19.200 IN x 0.39375 IN x 0.097 IN

Flex PCB thickness = 0.007 IN

Input connector = CON1

RoHS compliant



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DAY MODE

MAXIMUM RATINGS

10/20/2021

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)	80	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

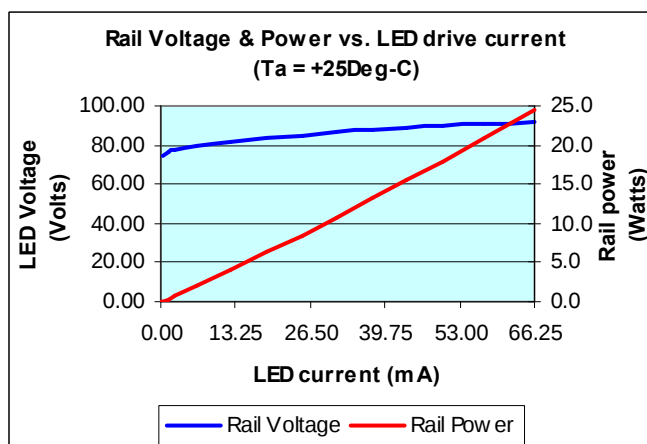
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA		21.4		cd
X	White X coordinate			0.265		
Y	White Y coordinate			0.260		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 66.25mA (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		83	92	101	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



NVIS MODE

MAXIMUM RATINGS

10/20/2021

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)	30	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 = 25mA (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		58	65	72	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

