



397 Route 281
Tully, New York 13159-1175
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ACR-3193

PRODUCT DATASHEET

15.65" DUAL MODE LED RAIL

(Day LEDs: Quad Bank, 71V @ 53.75mA)
(NVIS LEDs: Dual Bank, 90V @ 25mA)

04/04/2022

GENERAL DESCRIPTION

The ACR-3193 is designed as a replacement for dual rail, dual edge lit 17.3" 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

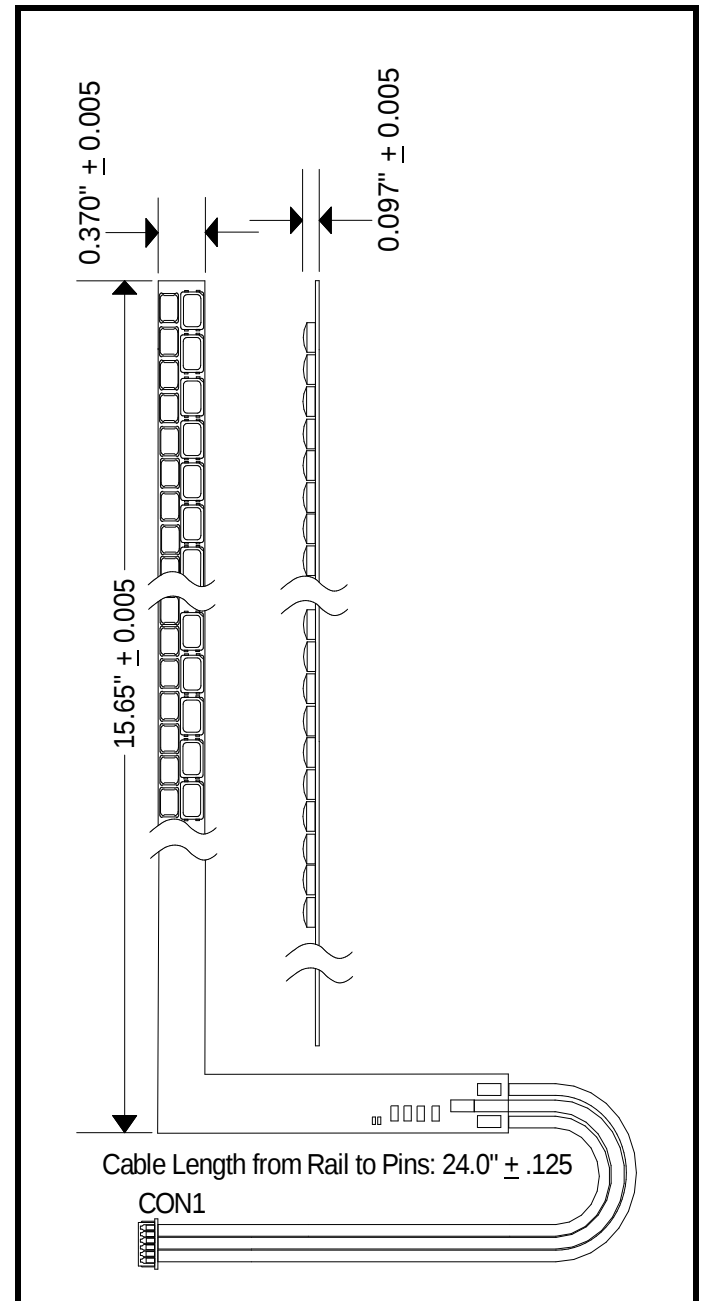
Humidity < 95% non-condensing

Size (L x W x H) = 15.65 IN x 0.370 IN x 0.097 IN

Flex PCB thickness = 0.007 IN

Input connector = CON1

RoHS compliant



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DAY MODE

MAXIMUM RATINGS

04/04/2022

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)	64.5	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

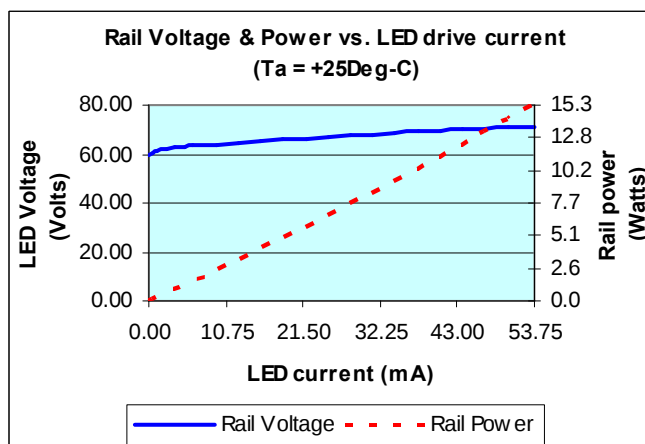
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA		21.4		cd
X	White X coordinate			0.265		
Y	White Y coordinate			0.260		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 53.75mA (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		64	71	78	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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NVIS MODE

MAXIMUM RATINGS

04/04/2022

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)	30	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 20mA			200	mcd
X	White X coordinate			0.260		
Y	White Y coordinate			0.280		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 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		81	90	99	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

