FP LED1

Physical Size

Length: 7.0" Height: 3.4" Depth: 2.5" Weight 14 oz.

Environmental

Storage

Temperature: -50 °C to 85 °C Humidity: 0 to 95%, non-condensing

Operating

Temperature: -40 °C to 72 °C Humidity: 0 to 95%, non-condensing

Mounting

Shelf or back board mounting

Construction

Chassis

Fully enclosed, anodized aluminum

Externally accessible switches, LEDs and con-

Electrical

All components mounted on conformal coated, internal PCB

Power

Voltage

Range: 10 to 36 Vdc Consumption Typical: 1 W

Non-volatile memory

Saves all calibration parameters

Parameters are auto-restored when power is reapplied

Isolation

Power

Minimum: 3800 Vdc from B and N terminals to chassis and inputs

Lamp Circuit Inputs

Minimum: 5000 Vdc to chassis or any terminal

Inputs

Input Impedance

Lamp Circuits: infinite, uses Hall-effect circuitry for complete isolation

XR: minimum 10K Ohms, opto-isolated

Lamp Circuits: 3.5 to 30 Adc (2.5 to 21 Aac), per EB and EN circuit with lamps illuminated

XR Input - On: 9 to 36 Vdc XR Input - Off: 0 to 2Vdc Flashing: 35 to 65 fpm

Capacities

Lamp Circuit Inputs

2, fully independent, AC or DC

Separate sensors for EB and EN conductors

3 to 12 incandescent or halogen lamps per EB and EN circuit (25W per lamp nominal) 25 or more LED lamps per EB and EN circuit

XR Inputs

2 total, 1 per lamp circuit, ± pair

LO and FP Outputs

Light Out: 2 total, 1 per lamp circuit, ± pair, 3 to 12 mAdc

Flash Pulse: 2 total, 1 per lamp circuit, \pm pair, 3 to 12 mAdc

Pulses high and low with current flow Range of 35 to 65 fpm

Lamp Failure Detection

Incandescent or Halogen Lamps

Single lamp failure in either EB or EN circuit is detected

LED Lamps

Calibrates current with all LEDs on or flashing Detects and reports drop in lamp current of 15% in either EB or EN circuit

Connectors

XR Inputs

Detachable, tension clamp, 4-position, 12 to 22 AWG

LO and FP Outputs

Dual, detachable, tension clamp, 4-position, 12 to 22 AWG

Power

Detachable, tension clamp, 4-position, 12 to 22 AWG

Dual B and N terminals

Controls

Pushbutton Switches

Quantity: 2, 1 per lamp circuit Usage: initiates Calibration Procedure

Piano Switch

Quantity: 1 with 4 positions

Positions 1, 2: selects incandescent or halogen

Position 3: enables compensation for DC voltage

Position 4: always on, for factory use only

LED Indicators (3)

Power

Green, illuminates with power

Lamp Circuit1 and 2

Green, flashes at various rates

Off: crossing is idle

On: crossing is active, no light failures

Slow / Medium Flashing: indicates calibration

Fast Flashing: crossing is active, light failure detected

MICRO-AIDE reserves the right to make changes, at its sole discretion, to any specifications listed

MICRO-AIDE 15