

## Specifications

| Physical |
| :--- |
| Size |
| Length: $7.0^{\prime \prime}$ |
| Height: $3.4^{\prime \prime}$ |
| Depth: $2.5^{\prime \prime}$ |
| Weight |
| 14 oz. |
| Environmental |
| Storage |
| Temperature: $-50^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ |
| Humidity: 0 to $95^{\circ} \%$, non-condensing |
| Operating |
| Temperature: $-40^{\circ} \mathrm{C}$ to $72^{\circ} \mathrm{C}$ |
| Humidity: 0 to $95^{\circ} \%$, non-condensing |
| Mounting |
| Shelf or back board mounting |
| Construction |
| Chassis |
| Fully enclosed, anodized aluminum |
| Externally accessible switches, LEDs and con- |
| nectors |
| 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 <br> Power

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

## Lamp Circuit Inputs

Minimum: 5000 Vdc to chassis or any termina
Inputs
Input Impedance
Lamp Circuits: infinite, uses Hall-effect circuitry
for complete isolation
XR: minimum 10K Ohms, opto-isolated
Range
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 2 Vdc
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 ( 25 W per lamp nominal)
25 or more LED lamps per EB and EN circuit

## XR Inputs

2 total, 1 per lamp circuit, $\pm$ pair
LO and FP Outputs
Light Out: 2 total, 1 per lamp circuit, $\pm$ 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
22AWG
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 lamps
Position 3: enables compensation for DC voltage fluctuation
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 state
Fast Flashing: crossing is active, light failure detected

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

