TRANSTECH

DATA SHEET – Process Automation – Industrial I/F

Subject to change without notice

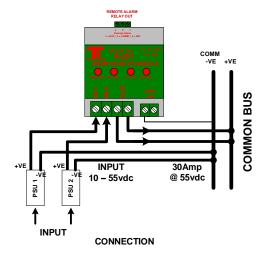
MODEL:- II-051

30AMP Diode-OR Module for dual redundant Power Supplies



FEATURES

- ♦ Wide operating supply voltage range 10-55V.
- Very low forward volt drop.
- Very low heat dissipation at 30A per input.
- ♦ Very low reverse leakage current (< 100uA).
- Wide ambient operating temperature range.
- Fault alarm relay with C/O contacts.
- MTBF at 65C 203,403 hrs



GENERAL DESCRIPTION

The II-051 Diode-OR, using power MOSFET technology, is a high efficiency alternative to the conventional Schottky diode based modules. The very low on resistance of the MOSFETs limits the typical dissipation to typically 1.25W at 30A and less than 1.65W (worst case) at an ambient of 60C.

The unit can withstand 180A current surges for 10ms.

The II-051 requires a 0V reference for correct operation (from the input power supplies). It is essential that this 0V reference be connected otherwise the unit will dissipate an excessive and damaging amount of heat.

The II-051 has four (4) LED indicators:- Input 1 OK | Input 2 OK | Output Available | Internal Fault

The Internal Fault activates an alarm relay.

The unit generally complies with the requirements of CISPR22, IEC61000 and the design recommendations of IPC2221.

TECHNICAL DATA

Input Voltage +10 to 55V (dc + ac peak).

30A maximum continuous
60A max short term overloa

Leakage Current: 60A max short term overload Typically <100uA at 60C.

Output Current: 55A continuous 75A short term overload

Other Outputs: LED Indicators showing

Input 1 OK
Input 2 OK
Unput 2 OK
Unput 2 OK
Unput Available

'LED ON' if supply #1 is greater than 9.6V
ULED ON' if supply #2 is greater than 9.6V
ULED ON' when output is available

Healthy "LED ON" and relay is energised if both MOSFETs OK

Internal Fault Healthy LED 'OFF' relay is de-energised and drops out.

GENERAL SPECIFICATION

Input Voltage 10-55V dc + ac peak
Leakage Current <100uA at 60C
Reference Current Less than 11mA at 24V
Controls Nil
Indicators 4 x Red LEDS
Operating Temp 0 to 70 Deg C
Storage Temp 0 to 85 Deg C

Terminals (Current)
Terminals (Reference)
Housing material
Mounting Style
Dimensions
Weight
Self-opening 16mm
Self-opening 4mm
Powder Coated Mild Steel
DIN Rail
See drawing below.
250 grams.

