DC TO FIBER-OPTIC MULTIPLEXER ———— DFM-16

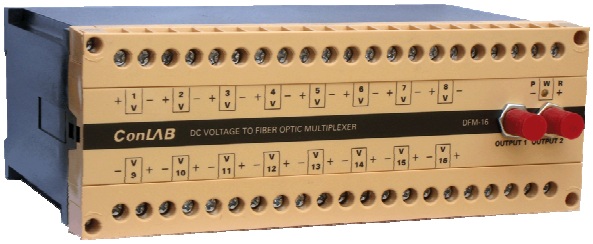
16, DC INPUTS

GALVANIC ISOLATION

2 FIBER OPTIC OUTPUTS

HIGH ACCURACY

MICRO-PROCESSOR BASED



The DFM-16 analog multiplexer converts 16 DC input signals in ranges of 0 to +28Vdc, into 12 bit output data.

The multiplexed data is output sequentially via two parallel fiber-optic outputs; Main and Back-Up channels.

Each of the 16 analog input pairs is floated and galvanic isolated from the other channels as well as from the output.

The multiplexer is controlled by set of micro-processors which handles the scan-rate, the data conversion and the output transmission.

The selected input is converted at 12 bit resolution and transmitted by two fiber optic LED transmitters connected in parallel in a transfer rate of 345 Kbaud.

The transmitted data is tagged with a special code indicating power fail mode of operation.

The DFM-16 is housed in a polycarbonate enclosure which can be mounted either on a 35 mm standard DIN rail.

INPUTS: 16, DC voltages

SPAN RANGE: 3 to 28Vdc (factory set)

ISOLATION: 1000Vdc or peak AC

CALIBRATION: internal Zero & Span trimmers

OUTPUTS: 2 Fiber optic (main and backup)

FIBER-OPTIC CONNECTORS: ST-3 Type

WAVE LENGTH: 820 - 860 nm

CONVERSION RESOLUTION: 12 Bits

ACCURACY: Better than 0.2% of span

SCAN RATE: 15 mSec/16 channels

DATA TRANSFER RATE: 345.6 KBAUD

POWER SUPPLY: 24 Vdc ±10%

SUPPLY CONSUMPTION: < 200mA

INDICATORS: Yellow LED, power "On" indicator

OPERATING TEMPERATURE: 0 - 75°C

STORAGE TEMPERATURE: -25 to +85°C

TEMPERATURE STABILITY: ±0.01% of span/1°K

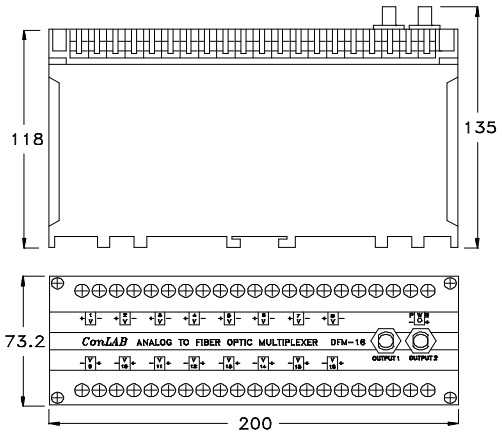
HUMIDITY: 5 - 95% relative, non condensed

FUSE: 630 mA, 5x20 mm fast blown

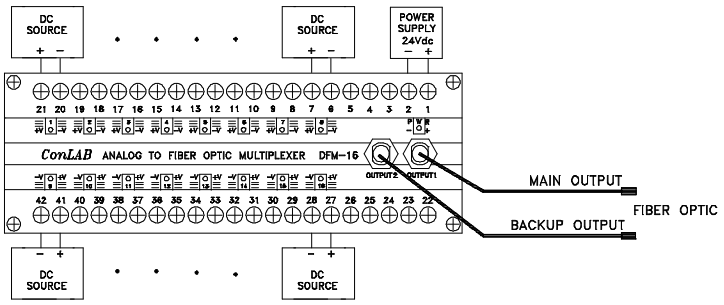
HOUSING: Plastic Polycarbonate
Box: According to IP50 DIN 40050
Terminals: According to IP20 DIN 40050

WEIGHT: 0.9 Kg

Dimensions



Connection Diagram



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