

Protection Solutions

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Digital Input Voltage Dropper

The Problem

Modern digital protection relays incorporate a large number of digital inputs for various control and blocking functions. The voltage input range can be quite wide for opto coupled inputs but often the maximum permitted voltage does not match the local control voltage available in the panel or that used by other control devices. Control voltages of 110V DC or even 250V DC higher are also desirable as they provide higher wetting currents. This is particularly useful when interfacing with auxiliary switches in old circuit breakers for example.

The Solution

RMS manufactures a voltage dropper module for interfacing protection relays with low voltage digital input capability to higher control systems voltages. This is achieved using appropriately rated dropping resistors housed in a slim line module designed for rack or flush mounting adjacent to the protection relay case terminals. This device is of robust construction with a vented aluminium panel to improve heat dissipation through conduction and convection. Up to 8 independent digital input circuits may be interfaced with 2KV RMS and 5KV impulse isolation between each circuit. Phoenix screw terminal connections are provided allowing up to 4 sq. mm wire insertion.

