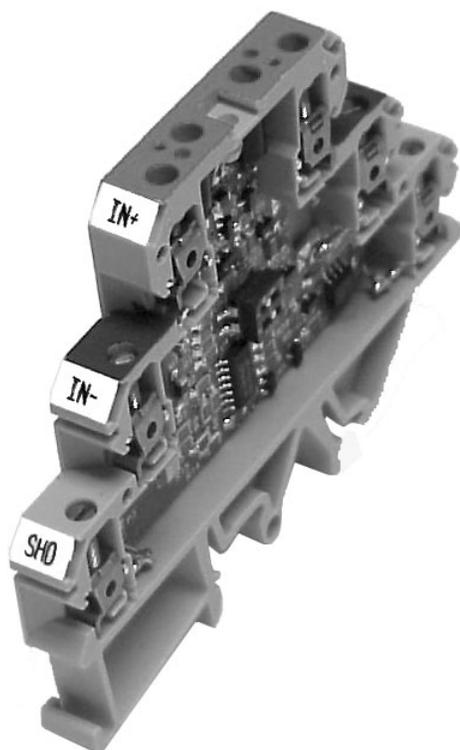


MC6

Foundation Fieldbus

Current Limiter



This module was designed as an interface between a Foundation Fieldbus network (trunk) and a field device (spur). Under normal conditions both the DC power and the superimposed Fieldbus signal are passed through but when the spur current exceeds a user selectable threshold the module will disconnect the spur from the trunk. This prevents a faulty field device from causing the network power supply to shut off.

The current thresholds are 20, 40 or 60mA nominal. Actual thresholds are 24, 46 and 68mA respectively. If the spur current exceeds the selected threshold the spur is disconnected in less than 1ms. The module waits a period of time and then attempts to reconnect to the trunk. If the current again exceeds the threshold the process repeats. Once the fault is removed the module will automatically reconnect the spur to the trunk. During a fault the status LED changes from green to red and flashes as the module tries to reconnect.

Other features include compact packaging (just 8mm wide) and built in test sockets for a network monitor or other test equipment. Mounting is on 32mm or 35mm DIN rails.

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MC6-FF Current Limiter

Specifications:

Input	DC supply and Foundation Fieldbus serial signal
	20mA limit: 12-30Vdc
	40mA limit: 18-30Vdc
	60mA limit: 22-30Vdc
	current: 5mA plus spur load current typical
Output	Vin - 2.5V plus Foundation Fieldbus signal typical
	Current: 20, 40 or 60mA nominal (DIP switch selectable)
Status LED	off
	green
	red
Response time	<1ms (time required to go into fault mode after fault is detected)
Fault mode	status LED flashes, power and serial transistors turned off
Wire size	24-12 AWG
Operating temperature	-20°C...70°C

Catalog Numbers

MC6-FF Current Limiter
Test Plug (PS 2)

Catalog Numbers

791941 0000
029380 0000

