



Signet 8059 External Relay Modules



Signet 8059 External Relay Modules supplement the output capabilities of certain host instruments such as the Signet 8900 Multi-Parameter Controllers or Profibus Concentrator. AC-powered versions accept universal line voltage, and also provide 24 VDC output that can be used to power the host instrument or other device(s).

The host instrument controls relay operation by way of a single digital (S³L) connection. The compact plastic housing is DIN rail mountable and includes LED annunciators for each relay, plus one each for power-on and data transfer or test mode.

Features

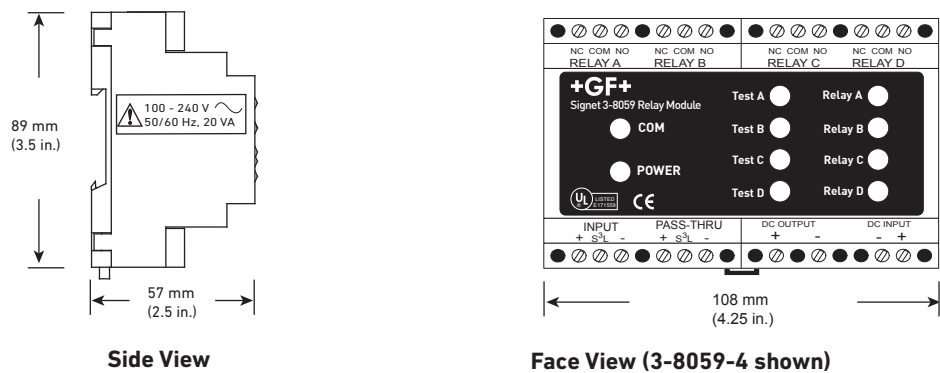
- External relays controlled by host instrument
- AC and DC powered versions
- DC power output (AC versions)
- DC power pass-through (DC versions) to simplify wiring
- Digital (S³L) pass-through to simplify sensor wiring
- Red LED annunciators for each relay
- Green LED indicators for power and digital (S³L) data transfer
- Relay can be tested locally, and also via the host instrument



Specifications

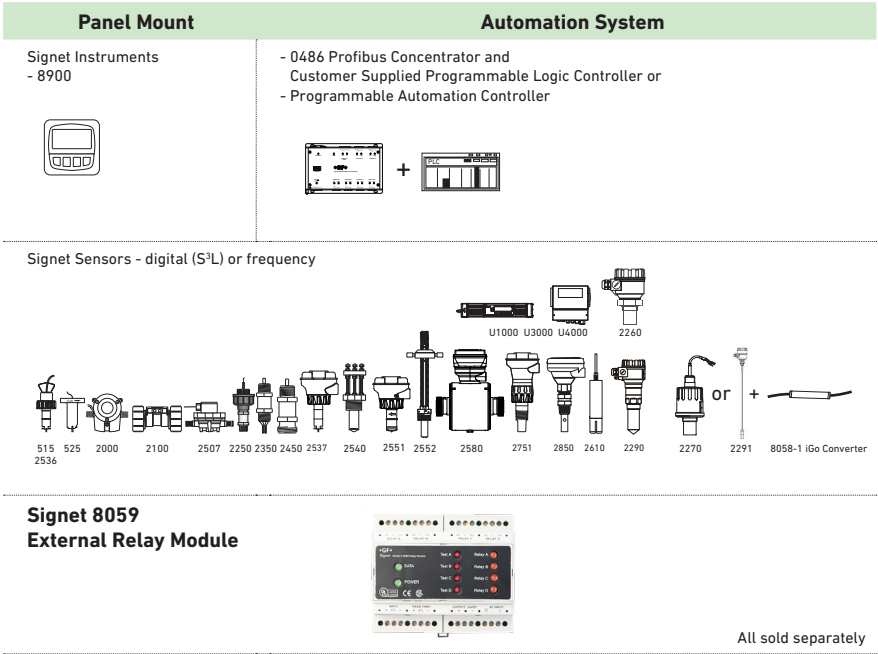
General		
Input		Digital (S ³ L) via host instrument
Type		DIN rail mountable
Terminals		Standard screw-type
Material		
Enclosure		Noryl® UL 94 V-0
Electrical		
Power Requirements		
	8059-4 AC	100-240 VAC ±10% regulated, 50/60 Hz, 20 VA
	8059-4	12 to 24 VDC ±10% regulated
DC Output		
	8059-4 AC	24 VDC regulated, 300 mA
Isolation		> 5,000 Vrms
Relays		
	Type	SPDT 250 VAC/30 VDC/5 A
	Resolution	2 ms (in pulse mode)
	Response Time	< 100 ms
	Annunciators	Red LED, 1 per relay
Environmental		
Operating Temperature		-10 °C to 55 °C14 °F to 131 °F
Storage Temperature		-20 °C to 85 °C-4 °F to 185 °F
Relative Humidity		0 to 90% (non-condensing)
Maximum Altitude		2,000 m (6,561 ft)
Shipping Weight		
		0.37 kg0.8 lb
Standards and Approvals		
		CE, FCC, UL, CUL
		China RoHS
		Manufactured under ISO 9001, and ISO 45001

Dimensions



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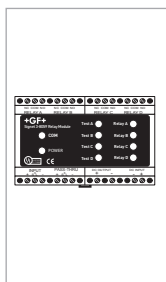
System Overview



Ordering Notes

- 1) Use an RC filter kit to protect relays from voltage spikes.
- 2) DIN railing and clips are available for mounting a relay module.
- 3) The -AC version will supply enough voltage to power the 8900 when using the 12-24 VDC power module.

Ordering Information



Mfr. Part No.	Code	Power Input and Output Options
External Relay Module		
4 Relay Module		
3-8059-4	159 000 772	12 to 24 VDC $\pm 10\%$ regulated with pass-through DC output (minus 0.7 volts)
3-8059-4AC	159 000 773	100 to 240 VAC with 24 VDC output $\pm 10\%$ regulated

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
3-8050.396	159 000 617	RC Filter Kit for relay use (2 per kit)
6205-0002	159 000 858	DIN Rail, 1 meter
6205-0003	159 000 859	End Clip, DIN rail