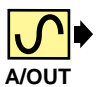
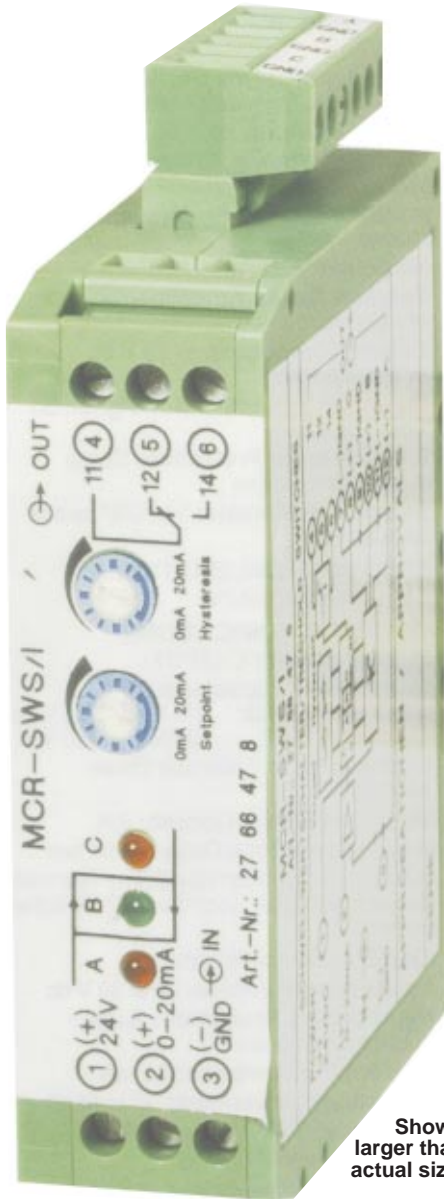


# Analog Threshold Switch

## MCR Series



**\$196**  
Basic Unit



Shown larger than actual size.

Relay status is indicated by a LED and PNP transistor. The alarm hysteresis is full scale adjustable. Three transistor level switches indicate over/under and relay status. Example: A 0-10 V MCR-SWS, can be adjusted to a setpoint of 5 V and a hysteresis of 6 V. The PNP (A) output and indicator would be active until 2 V was reached, at which point the PNP (B) output would become active. The relay, PNP (C) output and indicator would energize upon an 8 V signal level. The relay contact will denenergize upon reaching the lower set hysteresis. The PNP transistors are capable of a 100 mA max current.

### Specifications

#### INPUT

**Input Range:** 0-10 V, 0-20 mA, 4-20 mA

**Input Resistance:** Voltage Input:  $\geq 100$  K $\Omega$ ; current input:  $\leq 100\Omega$

**Setpoint Range:** 0-10 V, 0-20 mA

**Hysteresis Setting Range:** 0.1-10 V, 0.2-20 mA

#### MEASUREMENT

**Setting Accuracy, Hysteresis:**  $\pm 30$  mV,  $\pm 60$   $\mu$ A

**Additional Internal Hysteresis:** 30 mV, 60  $\mu$ A

#### TRANSISTOR

**Type:** PNP

**Max Output Voltage:** 24 V dc

**Max Output Current:** 100 mA

#### RELAY

**Type:** Form C (SPDT)

**Contacts:** Silver cadmium oxide (AgCdO)

**Switching Voltage:** 250 Vdc/220 Vac

**Max Current In-rush:** 5 A

**Max Current Continuous:** 2 A

**Maximum Switching Rate:** 15 Hz

#### General Specifications

**Current Consumption:** 40 mA

**Isolation Voltage (Common Mode):** N/A

**Operating Temperature Range:** 0 to 55°C

**Temperature Coefficient:** 0.02%/K

**Max Wire Size:** 14 AWG

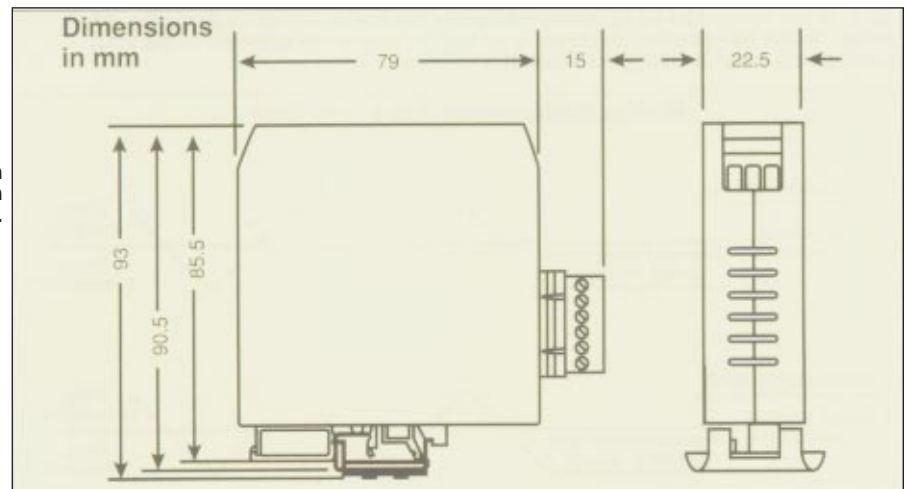
**Power:** 24 Vdc

**Mounting:** 35 mm DIN Rail

- ✓ Voltage and Current Inputs
- ✓ SPDT Relay Output
- ✓ LED's & PNP Transistors Provide Status Level
- ✓ DIN Rail Mountable

The MCR-SWS can be utilized as an analog setpoint alarm or as a simple, on/off process controller. The MCR-SWS has setpoint adjustment and alarm band hysteresis adjustment.

The alarm setpoint and hysteresis are adjusted by potentiometers.



### To Order (*Specify Model Number*)

Model Number	Price	Input	Output
MCR-SWS/U	\$196	0-10 V	Relay/PNP
MCR-SWS/I	196	4-20 mA	Relay/PNP

**Ordering Example:** MCR-SWS/U analog threshold switch with 0-10 V input and relay/PNP output, \$196.