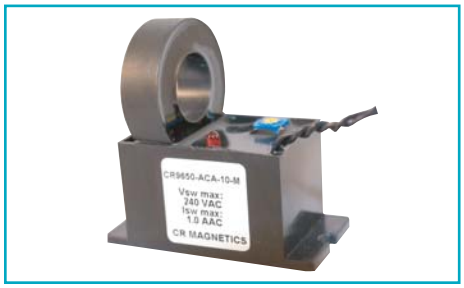
Adjustable Current Switch Normally Open

CR9600 Series



The **CR9600** Series is a low cost, self powered, adjustable set-point Current Switch designed for applications that require an on-off indication of current flow. Current levels above the setpoint will turn the output to full on. The Current Switch is recommended only for applications where the continuous operating current is above the rated full on level of 1.0 Amps. Operation below this point will not drive the output device full-on and derate the output ratings.
The unit is available with a NPN or PNP output transistor for switching DC and a SCR output for switching AC. Connections can be made directly to items such as a PLC or electromechanical relay. Note that connections made directly to an inductive device such as an electromechanical relay will require a customer supplied clamping diode for DC operation or a snubber network for AC operation.

DC SWITCHING (-NPN or -PNP)

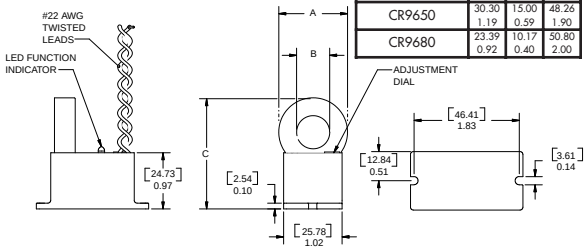
Vce (full off): 30 VDC max.
Isink (full on): 120 mADC max.@ rated full-on
Vce (reverse polarity voltage): 1.2 VDC @ 100 mADC
Vce (full on): 1.5 VDC @ 120 mADC Isink
Off state leakage current: 5ua @ 30 VDC (typical)

AC SWITCHING (-ACA)

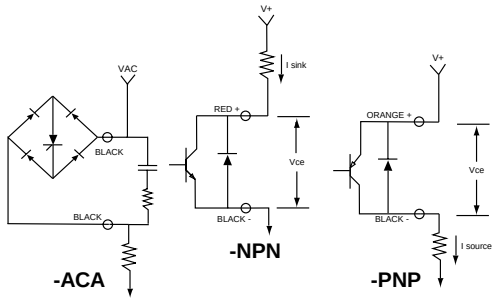
Off state voltage: 240 VAC RMS max.
Minimum holding current: 10 mA
On state current: 1.0 AAC RMS max. continuous
Off state leakage: 50 ua @ 240 VAC max.
Peak Non-Repetitive Surge Current: 8 AAC RMS (1 cycle, 60 Hz.)

OUTLINE DRAWING

	A	B	C
CR9621	25.70 1.012	6.86 0.27	40.64 1.60
CR9650	30.30 1.19	15.00 0.59	48.26 1.90
CR9680	23.39 0.92	10.17 0.40	50.80 2.00



ELECTRICAL CONNECTIONS



Applications

Continuity
Proving Switch

Features

Low Cost
Adjustable Trip Point
#22 AWG 12″ Lead Length
Reverse Output Polarity Protected
Self-Powered

Specifications

Rated Full-on: 1.0 AAC RMS
Turn-on Time: 100 ms. max. @ rated full-on
Turn-off Time: 250 ms. max. to 80% of Vce
Maximum sense current: Continuous: 100 AAC
1 Second: 500 AAC
Frequency*: 50 to 400 Hz
Operating Temperature: -30° C to +60° C
Storage Temperature: -55° C to +85° C
Weight 0.08 LBS
*All specifications for operation at 60 Hz only

Regulatory Agencies

RoHS 2002/95/EC

PART NUMBER

CR ☐☐☐☐-☐☐-☐☐☐-☐ CURRENT SWITCH

		INPUT RANGE			
9621	0.27 dia. Window	10	**NPN**	Transistor Output	**M** Mounting Case
9650	0.59 dia. Window	25	**PNP**	Transistor Output	
9680	0.40 dia. Window	50	**ACA**	AC Output	

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