
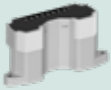





# Switch/VCT guide

Solid state switches/sensors			
Platform	Function	Electrical	Application
<b>Axiom AN</b> pg. 12 <b>Axiom AX</b> pg. 22 	33 (2) SST NO switching (SPST) <i>Axiom AX only</i>	0.1 amp @ 125 VAC/125 VDC	AC & DC computer inputs
	35 (2) SST NO switching (SPST)	0.1 amp @ 125 VAC/125 VDC; 0.1 amp @ 250 VAC/VDC	AC & DC computer inputs (global)
	44 (2) NAMUR sensors (EN 60947-5-6) <i>Axiom AX only</i>	$I < 1 \text{ mA}$ to $I > 2.1 \text{ mA}$ @ 7 - 24 VDC	Intrinsically safe repeater barrier input
	45 (2) NAMUR sensors (EN 60947-5-6) <i>Axiom AN only</i>	$I < 1 \text{ mA}$ to $I > 2.1 \text{ mA}$ @ 5 - 25 VDC	Intrinsically safe repeater barrier input
<b>Eclipse</b> pg. 34 <b>Quartz</b> pg. 42 <b>Prism PI</b> pg. 57 	33 (2) SST NO switching <i>Eclipse and Prism PI only</i>	0.1 amp @ 125 VAC or 24 VDC	AC & DC computer inputs
	35 (2) SST NO switching <i>Quartz only</i>	0.1 amp @ 20 - 250 VAC or 8 - 250 VDC	AC & DC computer inputs (global)
	44 (2) NAMUR sensors (EN 60947-5-6) <i>Eclipse only</i>	$I < 1 \text{ mA}$ to $I > 3 \text{ mA}$ @ 5 - 25 VDC	Intrinsically safe repeater barrier input
	45 (2) NAMUR sensors (EN 60947-5-6) <i>Quartz and Prism PI only</i>	$I < 1 \text{ mA}$ to $I > 3 \text{ mA}$ @ 5 - 25 VDC	Intrinsically safe repeater barrier input
<b>Hawkeye HK</b> pg. 67 	30 (1) SST NO switching	0.1 amp @ 125 VAC or 24 VDC	AC & DC computer inputs
	40 (1) NAMUR (EN 60947-5-6)	$I < 1 \text{ mA}$ to $I > 3 \text{ mA}$ @ 5 - 25 VDC	Intrinsically safe repeater barrier input
	50 DC 3-wire PNP	6 - 28 VDC, 200 mA	Foundation Fieldbus I/O inputs
<b>Hawkeye HX</b> pg. 69 	35 (1) SST NO switching	0.1 amp @ 20 - 250 VAC or 8 - 250 VDC	AC & DC computer inputs (global)
	45 (1) NAMUR (EN 60947-5-6)	$I < 1 \text{ mA}$ to $I > 3 \text{ mA}$ @ 5 - 29 VDC	Intrinsically safe repeater barrier input

Valve Communication Terminals VCTs			
Platform	Function	Electrical	Application
<b>Axiom AN</b> pg. 12 <b>Axiom AX</b> pg. 23 <b>Eclipse</b> pg. 34 <b>Quartz</b> pg. 43 <b>Prism PI</b> pg. 57 	71D HART <i>Axiom AX only</i>	4-20 mA, 14 - 35 VDC feedback HART overlay	4-20 with HART diagnostics
	80 Expeditor <i>Axiom AX and Prism PI only</i>	4-20 mA, 9 - 30 VDC feedback 4-20 mA, 9 - 30 VDC control input	Intermediate position control
	81 Expeditor <i>Prism PI only</i>	4-20 mA, 9 - 30 VDC feedback 4-20 mA, 9 - 30 VDC control input	Intermediate position control
	92 DeviceNet™ <i>All platforms</i>	2 DI & 2 DO, 1 AI auxiliary	4-wire network with 62 devices/ segment, optional Wireless Link
	93 Foundation Fieldbus <i>Axiom AX and Quartz only</i>	2 DI & 2 DO (bus powered outputs)	2-wire intrinsically safe, low power network
	96 AS-Interface <i>All platforms</i>	2 DI & 2 DO, 2 DI auxiliary	2-wire discrete bus network (31 devices/network), optional Wireless Link
	97 AS-Interface (extended addressing) <i>All platforms</i>	2 DI & 1 DO, 2 DI auxiliary	2-wire discrete bus network (62 devices/network), optional Wireless Link

Quartz switches/sensors			
Type	Function	Electrical	Application
<b>Maxx-Guard (hermetically sealed proximity switches)</b> pg. 44 	G SPDT (rhodium contacts)	0.20 amp @ 120 VAC; 0.30 amp @ 24 VDC	Computer input for AC & DC circuits
	H SPDT (tungsten contacts)	240 volts max; 3 amp max 100 watts max; 2.0 watts min	High power switching
	J SPST passive (ruthenium contacts)	0.10 amp @ 10 - 30 VDC	Intrinsically safe passive switching input
	M SPDT; passive (rhodium contacts)	0.10 amp @ 10 - 30 VDC	Intrinsically safe passive switching input
	P SPST (ruthenium contacts)	0.15 amp @ 125 VAC/30 VDC	Computer input for AC & DC circuits
	S SPDT (LED); (rhodium contacts)	0.10 amp @ 120 VAC; 0.10 amp @ 24 VDC	Computer input for AC & DC circuits
<b>Mechanical</b> pg. 45 	V SPDT silver contacts	10 amp @ 125/250 VAC; 0.5 amp @ 125 VDC	High power switching and AC computer inputs
	W SPDT gold contact	1.0 amp @ 125 VAC; 0.5 amp @ 30 VDC	AC & DC computer inputs; intrinsically safe; limited life
	14 (2) DPDT switches	4.5 amp @ 125/250 VAC	High power switching and AC computer inputs
<b>Other sensors</b> pg. 45	N P+F NAMUR sensors (EN 60947-5-6) NJ2-V3-N	<1 mA to >3 mA @ 6 - 29 VDC	Intrinsically safe repeater barrier input
	F P+F 3-wire PNP sourcing sensor NBB2-V3-E2-V5	0.10 amp @ 10 - 30 VDC	Special solid state, no leakage current
	X SST NO switching (LED)	0.10 amp @ 125 VAC or 24 VDC	AC & DC computer inputs
<b>Position transmitter</b> pg. 41 	5 Standard	4-20 mA @ 10 - 40 VDC	Standard analog feedback
	7 High performance	4-20 mA @ 10 - 40 VDC	Long life analog feedback with high vibration tolerance
	T Digital	4-20 mA @ 10 - 40 VDC	Non-contact magnetic sensor with push button calibration and outstanding vibration tolerance