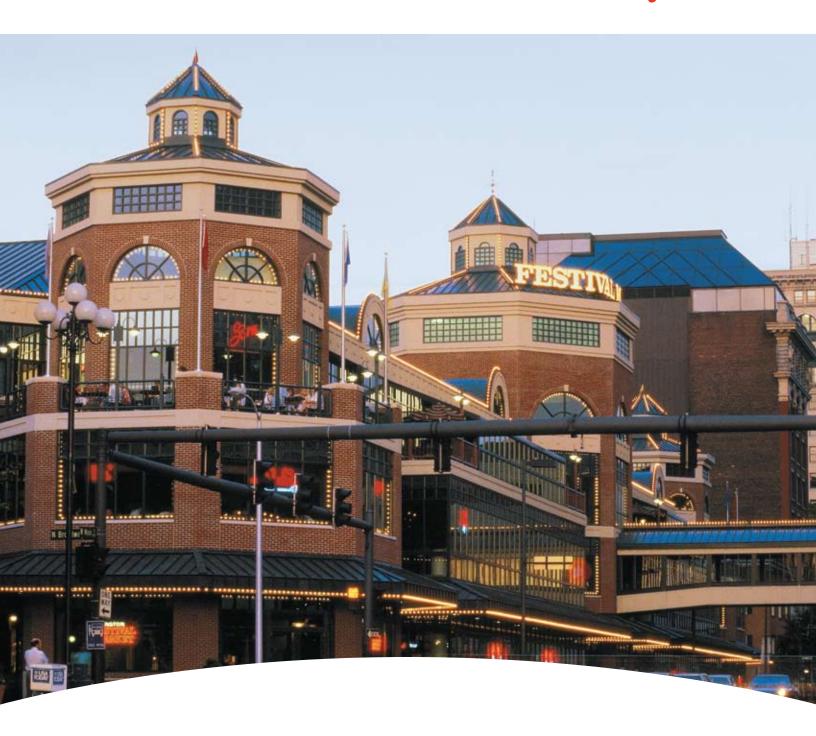
Sensors Product Overview

Honeywell



Reliable And Accurate Honeywell Sensors

Honeywell's complete line of sensor's cover all necessary control applications and mounting options, making Honeywell your best sensor source.

Temperature Sensors

No matter what control application or mounting option you can imagine,
Honeywell offers a temperature sensor that fits your needs — including wireless
TR20 sensors for easy installation and easy sensor relocation. From averaging, immersion and outdoor sensors to duct mount, wall mount and strap-on sensors,
Honeywell sensors cover every application and installation.

Humidity Sensors

Highly accurate, stable humidity transducers designed for use with HVAC controllers, thermostats and direct digital controllers, Honeywell humidity sensors feature a ceramic technology that's affected by condensation. Applications include room comfort, rooftop units, air handlers, air conditioning and anywhere relative humidity is tightly controlled.

Dew Point Sensors

Suitable for mounting on flat and round surfaces, the Honeywell dew point sensor is used to regulate cooling performance, switch cooling systems ON and OFF, and signal if the temperature is approaching the dew point.



CO₂ Sensors

The Honeywell CO2 sensor includes state-of-the-art non-dispersive infrared (NDIR) technology plus a corrosion-freedesigned sensing chamber that provides accurate and stable CO2 readings for years, avoiding costly and inconvenient re-calibration. A patented gold-plated sensing chamber eliminates a primary source of dirt. Paired with a Honeywell economizer, the Honeywell CO2 sensor can triple year-round savings over "cooling only" economizing. The sensor is used in demand control ventilation applications to maintain acceptable levels of CO2 in the space.

Current Sensors And Switches

Honeywell current switches can detect whether current is flowing and then transmit the status to a building management system, DDC or PLC controller. Honeywell current transmitters measure the level of operating current and can



be used to monitor equipment or drive other equipment with a modulating output. Both current switches and transmitters can be used to detect a motor failure, belt loss or slippage, or a mechanical failure to help prevent further damage and reduce downtime. Because Honeywell current sensors are rated at up to 250 amps, you can meet high-amp applications without the need for a transformer. And Honeywell offers current switches with a very low trip point of 0.20 amps.

Enthalpy Sensors

Honeywell enthalpy sensors are used with
Honeywell economizer logic modules to
permit the use of outdoor air as the first stage
of cooling in HVAC systems. The long-lasting
solid-state sensing elements are accurate and stable
over time. Maximum economizer savings are achieved when two
enthalpy sensors are connected to one economizer logic module
for differential enthalpy changeover control.

Differential Pressure Sensors

All Honeywell differential pressure sensors offer field selectable 4-20 mA, 0-5 Vdc and 0-10 Vdc outputs, uni- and bi-directional outputs, push button and digital inputs to zero the output, and configurable pressure ranges. Use P7640 dry



media sensors in applications where you want measure extremely low pressure, such as clean rooms, hospitals, fume hoods and computer rooms. Use the PWT Series to monitor and control pump differential pressure, chiller/boiler differential pressure drop and CW/HW system differential pressure.

Specify Honeywell Sensors And Save

Honeywell sensors have always been competitively priced, and today Honeywell sensors continue to be one of the industry's best values. Add in the fact that their ease-of-installation increases your productivity and you'll see that Honeywell sensors are the smart, cost-effective choice.

HUMIDITY, DEW POINT, CO2 and PRESSURE SENSORS



H7655B, H7625B, H7635B



C7600B, H7655A

Electronic Humidity Sensors, 0-100% RH (some with temperature sensors)												
Part Number	Output Signal	RH Accu- racy	Mounting & Application	Voltage Supply	Temp Sensor	Use With	Insertion Length					
H7625A1008		2%	Room				N/A					
H7635A1006	Selectable	3%	Room			T7350, H775, XL50,	IN/A					
H7625B1006	4-20 mA,	2%	Duct	18-36 Vdc or	20K ohm	XL500, XFC, W750B/C,						
H7635B1004	0-10 Vdc, or	3%	Duct	24 Vac	at 77° F	W7753, W7760A/C, W7761	7.5" "B" models only					
H7655B1009	0-5 Vdc	5%	Duct									
H7635C1002		3%	Outdoor			Where outdoor is needed						
H7655A1001	0-10 Vdc	5%	Room	16-40 Vdc or		T7350, controllers that accept 0-10 Vdc input						
C7600B2008	2-10 Vdc		Wall Mount	16-30 Vac		H775, some XL controllers	N/A					
C7600A1002	4-20 mA directly proportional	5% between 30-70% RH	Duct Mount	12-40 Vdc	None	W7600	14/74					
C7600C1008	4-20 mA directly proportional	00 70 70 1111	Duct Mount	12-40 Vac		H775, W7600						



Dew Point Sensors	Dew Point Sensors								
Part Number	Output	Switch	Hysteresis						
H7018A1003	Potential-free contact	RH > 90% contact open RH < 90% closed	-4 to 5% RH						



C7232A



Carbon Dioxide (CO ₂) Sensors											
Part Number	Output Signal	Display Screen	Honeywell Logo	Mounting	CO ₂ Range (accuracy)						
C7232A1008		Yes	Yes								
C7232A1016		No	Yes	Mall							
C7232A1024	0/2 to 10 Vdc or	Yes	No	Wall	0 to 2,000 ppm adjustable +/- 30 ppm +/- 2% of reading at normal						
C7232A1032	0/4 to 20 mA w/	No	No								
C7232B1006	one adjustable	Yes	Yes								
C7232B1014	SPST relay output	No	Yes	Duct	temperature and pressure						
C7232B1022		Yes	No	(8" insertion length)							
C7232B1030		No	No								
C7632A1004	0-10 Vdc (fixed)	No	Yes	Wall	0 to 2 000 ppm fixed						
C7632B1002	0-10 Vdc (fixed)	No	Yes	Duct	0 to 2,000 ppm fixed						

HUMIDITY, DEW POINT, CO2 and PRESSURE SENSORS (CONT.)



P7640 Pressure Transducer Models										
Model	Mounting	Selectable W.C. Range	Display	Output	Supply Voltage					
P7640A1000		0 41 0 051 0 51 0 41	Yes							
P7640A1018	Panel	01", 025", 05", 0-1"	No							
P7640A1026	ranei	0-1". 0-2.5". 0-5". 0-10"	Yes	0-10 Vdc,						
P7640A1034		0-1 , 0-2.5 , 0-5 , 0-10	No							
P7640B1008				0 411 0 0511 0 511 0 411	Yes	0-5 Vdc, and	12-30 Vdc or 24			
P7640B1016	Durat	01", 025", 05", 0-1"	No	4-20 mA	Vac					
P7640B1024	Duct	0-1". 0-2.5". 0-5". 0-10"	Yes	selectable						
P7640B1032		0-1 , 0-2.5 , 0-5 , 0-10	No							
P7640U1040	Universal	01", 025", 05", 0-1" 0-2.5", 0-5", 0-10"	No							
P7640U1052	Universal	01", 025", 05", 0-1" 0-2.5", 0-5", 0-10"	Yes							



PWT Series Wet Differential Pressure Transducers											
Model Selectable Pressure Range Bypass Valve Assembly Output Supply Volta											
PWT50	0-5, 0-10, 0-25, 0-50 psid	No									
PWT50-BP	0-5, 0-10, 0-25, 0-50 psid	Yes	0-10Vdc.								
PWT100	0-10, 0-20, 0-50, 0-100 psid	No	0-5Vdc, and	12-30Vdc							
PWT100-BP	0-10, 0-20, 0-50, 0-100 psid	Yes	4-20mA	or 24Vac							
PWT250	0-25, 0-50, 0-125, 0-250 psid	No	selectable								
PWT250-BP	0-25, 0-50, 0-125, 0-250 psid	Yes									

ENTHALPY SENSORS





Enthalpy Sensor/Dry Bulb (Temperature)								
Part Number	Part Number Sensor Output Operating Range Insertion Length							
C7400A1004	4-20 mA	32° to 125° F	NI/A					
C7660A1000	4 or 20mA	32 10 125 F	N/A					

	Part Number	Sensor Type		Description
	Part Number	Temp	Humidity	Description
rder /Ik nced	TR70	>		Customizable, 2-wire, non-polarity sensitive, Sylk bus communicating wall module with network bus jack
Spyc Syl Enhar	TR70-H	>	/	and LCD panel.

		Senso	or Type	Selectable Setpoint					
	Part Number	Temp	Humidity	Adjustment 55° to 85°F, 13° to 30°C or Relative (- to +)	Occupied Override	Comments			
	TR21-WK	>				lactudes are evaluated across and vaccinous			
ats*	TR23-WK	/		V	>	Includes one prebound sensor and receiver.			
Controllers and Thermostats*	TR21-WS	/				Sensor only. For replacement.			
Cont	TR23-WS	/		V	>	Requires a wireless receiver.			
	WRECVR					Wireless receiver only. For replacement. Requires a wireless sensor.			

^{*} Compatible controllers include Spyder, Excel 10, W7750, W7751, W7752, W7753 and non-Honeywell controllers with remote setpoint. Compatible thermostats include T7350, T7351, TB8575 thermostats and non-Honeywell thermostats with remote setpoint.

	Model Number			Senso	or Type	Selectable Setpoint				
	Honeywell Wall Module Model	Replaces Honeywell Model	Sensor Element Type	Temp	Humidity	Adjustment 55° to 85°F, 13° to 30°C or Relative (- to +)	Occupied Override	LON Jack	Fan Switching	Туре
	TR21	T7770A1006	20K ohms non-linear	~						
	TR21-A	T7770A3002	10K ohms non-linear for averaging only	~						
9	TR21-H	n/a		V	/			V		
1 28	TR21-J	T7770A2004		/				/		
Spyder, T7350	TR22	T7770B1004 T7770B1020 T7770B1046		~		V		~		
100, 500, S	TR23	T7770C1002 T7770C1028 T7770C1044	20K ohms	~		V	>	~		
'۽ ا	TR23-H	n/a	non-linear	V	V	V	V	V		
,50,	TR23-N ^a	T7770C1051		/		✓	/	/		
, 15,	TR24	T7770D1000		/			✓	V		
Excel 10,	TR22-F5 ^b	n/a		~		V		~	5 position	
E	TR23-F3 ^b	T7770E1023		V		✓	/	~	3 position	
	TR23-F5 ^b	T7770F1005		V		✓	>	/	5 position	
	C7772A1004	n/a	20 K ohms non-linear	~						No logo
	C7772A1012	n/a	20 K ohms non-linear	~						With Honeywell logo
	T7560A1018	n/a	20 K ohms non-linear	~		V	V	Optional	Yes	LCD Display white and blue
5	T7560A1042	n/a	20 K ohms non-linear	~		V	V	Optional	Yes	LCD Display all white
×	T7560B1016	n/a	20 K ohms non-linear	~	~	V	V	Optional	Yes	LCD Display white and blue
	T7560B1032	n/a	20 K ohms non-linear	~	~	V	~	Optional	Yes	LCD Display all white

^a No Honeywell Logo ^b Not for use with T7350









T7560A, B (all white)

T7560A, B (white/blue)

	Part Number	Sensing Element/Sensor Type	Color/Mounting	Features
	T7047C2007	1420 ohms	Taupe, new styling	
	T7047C2015	1420 ohms	Premier white, new styling	
l Si	T7047G2008	710 ohms	Taupe, new styling	Averaging only
afie	T7047G2016	710 ohms	Premier white, new styling	Averaging only
읦	T7147A2000	1420 ohms	Taupe, new styling	Override
A P	T7147A2018	1420 ohms	Taupe, new styling	Override, warmer, cooler
8	T7147G2015	710 ohms	Taupe, new styling	Override, averaging only
	T7147G2023	710 ohms	Taupe, new styling	Override, warmer, cooler, averaging only
	T7022A1010	T7022A1010 1420 ohms Duct i		
	C7031G2014 ^a	PT3000	Outdoor mount	For use with T7350

^a For use with T7350 applications.

	Part Number	Sensing Element	Description	Temperature Range	Use With
	50021579-001	1097 ohms at 77° F	-40° to 350° F (-40° to 177° C)		
	T775-SENS-WR	1097 ohms at 77° F	Water-resistant probe with 5-ft. leads	-40° to 270° F (-40° to 132° C)	
	T775-SENS-WT	1097 ohms at 77° F	Water-tight probe with 6-ft. leads	-40° to 270° F (-40° to 132° C)	
	T775-SENS-OAT	1097 ohms at 77° F	Outdoor air temperature sensor	-40° to 158° F (-40° to 70° C)	
	T775-SENS-STRAP	1097 ohms at 77° F	Strap-on	-40° to 250° F (-40° to 121° C)	
12	C7031D2003	1097 ohms at 77° F	5-in. immersion sensor with wiring box (well included, 50001774-001)	-40° to 350° F (4° to 177° C)	All T775 Series
4	C7031B2005	1097 ohms at 77° F	6-in duct with wiring box	-40° to 250° F (-40° to 121° C)	2000 models
	C7031J2009	1097 ohms at 77° F	12-in. duct averaging sensor with four elements with wiring box	40° to 180° F (4° to 82° C)	
	C7046D1008	1097 ohms at 77° F	8-in. duct probe with mounting flange	40° to 150° F (4° to 66° C)	
	C7100D1001	1097 ohms at 77° F	12-in. flat response, duct averaging sensor with flange	40° to 220° F (4° to 104° C)	
	C7130B1009	1097 ohms at 77° F	Room mount sensor	-40° to 100° F (-40° to 38° C)	
	C7170B1000	1097 ohms at 77° F	3/8-in. diameter temperature probe	-40° to 250° F (-40° to 121° C)	



GENERAL TEMPERATURE SENSORS

	Part Number	Sensing Element	Temperature Range	Insertion Length	Туре	Mounting & Application
<u></u>	C7150B1004	3K ohms NTC at 77° F	-40 to 110° F (-40° to 43° C)	N/A	Duct — Temp Sensor	Mixed or discharge air sensor
nomizer	C7650A1001	10-20 mA	40 to 110° F (4° to 43° C)	N/A	Duct — Temp Sensor	Dry-bulb temperature sensor
5	C7046A1004	3K ohms NTC at 77° F	40 to 150° F (4° to 66° C)	8 in.	Duct — Temp Sensor	Mixed or discharge air sensor
8	C7046A1038	3K ohms NTC at 77° F	40 to 150° F (4° to 66° C)	12 in.	Duct — Temp Sensor	Mixed or discharge air sensor
Ш	C7400A1004	4-20 mA	32 to 125° F (0° to 52° C)	N/A	Duct — Enthalpy Sensor	
			ı			
p Sensors	C7130A1001	3,484 ohms PTC at 77° F	-40° to 100° F (-40° to 38° C)	N/A		Wall mount
Other Temp	C7130B1009	1,097 ohms PTC at 77° F	-40° to 100° F (-40° to 38° C)	N/A		Wall mount

	Part Number	Sensing Element/ 20K ohms NTCb	Sensing Element/ PT1000°	Sensing Element/ PT3000 ^d	Resistance	Operating Range	Insertion Length	Mounting & Application
	C7041B2005	V			20K ohms NTC at 77° F	-40° to 250° F	6 in.	Duct with wiring enclosure
	C7041B2013	V			20K ohms NTC at 77° F	-40° to 250° F	12 in.	Duct with wiring enclosure
	C7041C2003	~			20K ohms NTC at 77° F	F -40° to 250° F 18 in. Duct with		Duct with wiring enclosure
	C7770A1006	V			20K ohms NTC at 77° F	45° to 99° F	6.5 in.	Duct probe with flange
	C7046D1008		V		1,097 ohms PTC at 77° F	40° to 150° F	8 in.	Duct (Discharge)
	C7100D1001		/		1,097 ohms PTC at 77° F	40° to 220° F	13 in.	Duct (Averaging)
=	C7100C1003				3,484 ohms PTC at 77° F	40° to 220° F	13 in.	Duct (Averaging)
Duct Mount	C7100A1015			V	3,484 ohms PTC at 77° F	40° to 220° F	13 in.	Duct (Averaging)
₹	C7046A1004				3K ohms NTC at 77° F	40° to 150° F	8 in.	Duct (Discharge)
] ă	C7046A1038				3K ohms NTC at 77° F	40° to 150° F	12 in.	Duct (Discharge)
	C7046B1010				22.8K ohms NTC at 77° F	40° to 150° F	6 in.	Zone (Discharge)
	C7046C1000				3K ohms NTC at 77° F	40° to 150° F	8 in.	Single point sensing
	C7100B1013				22.8K ohms NTC at 77° F	40° to 150° F	13 in.	Duct (Averaging)
	C7041J2007	✓			20K ohms NTC at 77° F	-40° to 250° F	12 ft.	Duct (Averaging) with wiring enclosure
	C7150B1004				3K ohms NTC at 77° F	-40° to 250° F	N/A	Duct (internal)
	C7041R2000	✓			20K ohms NTC at 77° F	-40° to 250° F	12 ft.	Duct flexible copper (Averaging)
	C7041R2018	V			20K ohms NTC at 77° F	-40° to 250° F	24 ft.	Duct flexible copper (Averaging)
	C7772A1004	V			20K ohms NTC at 77° F	45° to 99° F	N/A	Flush wall mount / no logo
ğ	C7772A1012	V			20K ohms NTC at 77° F	45° to 99° F	N/A	Flush wall mount / with logo
Wall Mount	C7130B1009		>		1,097 ohms PTC at 77° F	-40° to 100° F	N/A	Wall mount
Nal	C7130A1001			~	3,484 ohms PTC at 77° F	-40° to 100° F	N/A	Wall mount
	C7041P2004	'			20K ohms NTC at 77° F	-40° to 250° F	N/A	Small button sensor
Water	C7041D2001	V			20K ohms NTC at 77° F	-40° to 250° F	4 in.	With wiring enclosure, use well 50001774-001
	C7041K2005	V			20K ohms NTC at 77° F	-40° to 250° F	N/A	Strap-on, with wiring enclosure
Outdoor	C7041F2006	V				-40° to 250° F	N/A	Outdoor weatherproof, connects to 1/2" conduit

^b 20K ohms NTC sensors are used with Excel 10, 15, 50, 100 and 500. See controller product data sheets for details. ^c PT1000 sensors are used with Excel 15, 100, 500 and 600. See controller product data sheets for details. ^d PT3000 sensors are used on certain Excel and Microcell products. See controller product data sheets for details. **Note:** 3K ohm NTC sensors are used on W973, W7100, W7459, W7215, W7212 and all economizer modules.



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	Part Number	Description	Core Type	Normally Open or Normally Closed	Trip Point	Operating Range	Output Switch Rating	LEDs
	CSS-O-F5-001	"Go/No Go" current switch	Solid	N/O	0.5 A	0-250 A	0.3 A at 200 Vac/Vdc	Red
	CSS-O-F1-001	"Go/No Go" current switch	Solid	N/O	0.2 A	0-250 A	0.3 A at 200 Vac/Vdc	Red
	CSS-C-F5-001	"Go/No Go" current switch	Solid	N/C	1.0 A	0-250 A	0.15 A at 300 Vac/Vdc	Red
	CSS-C-F1-001	"Go/No Go" current switch	Solid	N/C	0.5 A	0-250 A	0.15 A at 300 Vac/Vdc	Red
Se	CSS-O-A300-001	Adjustable current switch	Solid	N/O	1.0 A to 250 A	0-250 A	0.3 A at 200 Vac/Vdc	Red and green
Switch	CSS-O-A200-001	Adjustable current switch	Solid	N/O	0.5 A to 250 A	0-250 A	0.3 A at 200 Vac/Vdc	Red and green
	CSS-C-A300-001	Adjustable current switch	Solid	N/C	1.0 A to 250 A	0-250 A	0.15 A at 300 Vac/Vdc	Red and green
	CSP-O-F15-001	"Go/No Go" current switch	Split	N/O	2.5 A	0-200 A	0.3 A at 200 Vac/Vdc	Red
urrent	CSP-O-F10-001	"Go/No Go" current switch	Split	N/O	1.5 A	0-200 A	0.3 A at 200 Vac/Vdc	Red
ರ	CSP-C-F15-001	"Go/No Go" current switch	Split	N/C	2.5 A	0-250 A	0.15 A at 300 Vac/Vdc	Red
	CSP-O-A300-001	Adjustable current switch	Split	N/O	3.0 A to 200 A	0-200 A	0.3 A at 200 Vac/Vdc	Red and green
	CSP-O-A200-001	Adjustable current switch	Split	N/O	2.0 A to 200 A	0-200 A	0.3 A at 200 Vac/Vdc	Red and green
	CSP-C-A300-001	Adjustable current switch	Split	N/C	3.0 A to 250 A	0-250 A	0.15 A at 300 Vac/Vdc	Red and green
	CSP-C-A200-001	Adjustable current switch	Split	N/C	2.5 A to 250 A	0-250 A	0.15 A at 300 Vac/Vdc	Red and green

	Part Number	Description	Core Type	Output	Current Range	Туре	Loop Powered	True RMS or average
	CTS-20-005-AVG-001	Loop powered current sensor	Solid	4-20 mA	0-5 A	Fixed	Yes	Average
	CTS-20-050-AVG-001	Loop powered current sensor	Solid	4-20 mA	0-10, 0-20, 0-50 A	Adjustable	Yes	Average
	CTS-20-250-AVG-001	Loop powered current sensor	Solid	4-20 mA	0-100, 0-200, 0-250 A	Adjustable	Yes	Average
	CTS-20-005-VFD-001	Loop powered current sensor	Solid	4-20 mA	0-5 A	Fixed	Yes	True RMS
	CTS-20-050-VFD-001	Loop powered current sensor	Solid	4-20 mA	0-10, 0-20, 0-50 A	Adjustable	Yes	True RMS
	CTS-20-250-VFD-001	Loop powered current sensor	Solid	4-20 mA	0-100, 0-200, 0-250 A	Adjustable	Yes	True RMS
	CTP-20-005-AVG-001	Loop powered current sensor	Split	4-20 mA	0-5 A	Fixed	Yes	Average
Transmitters	CTP-20-050-AVG-001	Loop powered current sensor	Split	4-20 mA	0-10, 0-20, 0-50 A	Adjustable	Yes	Average
ᄩ	CTP-20-200-AVG-001	Loop powered current sensor	Split	4-20 mA	0-100, 0-150, 0-200 A	Adjustable	Yes	Average
ans	CTP-20-005-VFD-001	Loop powered current sensor	Split	4-20 mA	0-5 A	Fixed	Yes	True RMS
Ę	CTP-20-050-VFD-001	Loop powered current sensor	Split	4-20 mA	0-10, 0-20, 0-50 A	Adjustable	Yes	True RMS
rrent	CTP-20-200-VFD-001	Loop powered current sensor	Split	4-20 mA	0-100, 0-150, 0-200 A	Adjustable	Yes	True RMS
Į	CTS-05-050-VDC-001	Current sensors	Solid	0-5 Vdc	0-10, 0-20, 0-50 A	Adjustable	No	Average
	CTS-05-250-VDC-001	Current sensors	Solid	0-5 Vdc	0-100, 0-200, 0-250 A	Adjustable	No	Average
	CTS-10-050-VDC-001	Current sensors	Solid	0-10 Vdc	0-10, 0-20, 0-50 A	Adjustable	No	Average
	CTS-10-250-VDC-001	Current sensors	Solid	0-10 Vdc	0-100, 0-200, 0-250 A	Adjustable	No	Average
	CTP-05-050-VDC-001	Current sensors	Split	0-5 Vdc	0-10, 0-20, 0-50 A	Adjustable	No	Average
	CTP-05-250-VDC-001	Current sensors	Split	0-5 Vdc	0-100, 0-200, 0-250 A	Adjustable	No	Average
	CTP-10-050-VDC-001	Current sensors	Split	0-10 Vdc	0-10, 0-20, 0-50 A	Adjustable	No	Average
	CTP-10-250-VDC-001	Current sensors	Split	0-10 Vdc	0-100, 0-200, 0-250 A	Adjustable	No	Average





Solid Core

Split Core

Automation and Control Solutions

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