

## Tehničke specifikacije

Termiente speemintarenje			
Description	CPU 224+ DC/DC/DC	CPU 224+ AC/DC/Relay	
Order Number	CTS7 214-1AD33-0X24	214-1AD33-0X24 CTS7 214-1BD33-0X24	
Physical Size			
Dimensions(W×H×D)	137×80×62mm	137×80×62mm	
Power loss(dissipation)	7W	10W	
Power Supply			
Line voltage-permissible range	20.4 to 28.8VDC	85 to 264VAC,47 to 63Hz	
Input current CPU only/max load	110/700 mA at 24 VDC	30/100 mA at 240 VAC 60/200 mA at 120 VAC	
In rush current(maximum)	10A at 28.8 VDC	20A at 264 VDC	
Isolation(input power to logic)	Not isolated	1500VAC	
Hold up time(from loss of input power)	10ms at 24VDC	80ms at 240VAC,20ms at 120VAC	
Internal Fuse, not user- replaceable	2A,250V,Slow Blow	2A,250V,Slow Blow	
+5VDC power for Expansion I/O(max)	660mA	660mA	
24VDC Sensor Power Output			
Voltage range	15.4 to 28.8 VDC	20.4 to 28.8 VDC	
Maximum current	280 mA	280 mA	
Ripple noise(maximum)	Same as input line	Less than 1V peak to peak	
Current limit	600mA	600mA	
Isolation(sensorpower to logic circuit)	Not isolated	Not isolated	
CPU Features			
Onborad digital inputs	14 DC24V	14 DC24V	
Onborad digital outputs	10 DC24V 10 Relay		
Program memory size	12KB base memory,can be expanded to 16KB		

Data block size	8KB base memory,can be expande to 108KB		
Stored permanently	8KB		
Backed by super	OVD		
capacitor or battery	8KB		
High-speed counters(32 bit value	)		
Total	6 High-speed counters		
Single phase counters	6,each at 30KHz clock rate		
Two phase counters	4,each at 30KHz clock rate		
Pulse outputs	2 at 20KHz pulse rate		
Analog adjustments	2 with 8 bit resolution		
Timed interrupts	2 with 1ms resolution		
Edge interrupts	4 edge up and/or 4 edge down		
Selectable input filter times	7 ranges from 0.2ms to 12.8ms		
Pulse catch	14 pulse catch inputs		
Number of expansion I/O	7		
Modules	7 modules		
Maximum digital I/O	256 points(128 inputs / 128 outputs)		
Maximum analog I/O	64 points(32 inputs / 32 outputs)		
Internal memory bits	256 bits		
Stored permanently on power	112 bits		
down	112 Dits		
Backed by super	256 bits		
capacitor or battery	ZU DILS		
Timers Total	256 timers		
Backed by super	64 timors		
capacitor or battery	64 timers		
1ms	4 timers		
10ms	16 timers		
100ms	236 timers		
Counters total	256 counters		
Backed by super	256 counters		
capacitor or battery	250 Counters		
Boolean execution speed	0.15µs per instruction		
Float execution speed	8µs per instruction		

Super capacitor data retention			
time	100 hours, typical		
Onboard Communication			
Communication Interface	2, PORT0 for PPI/MPI in RS485 and RS232, FPROT for		
Communication interface	freeport in RS485 and RS232		
Isolation(external signal to logic	Not isolated		
circuit)			
PPI/MPI baudrates	9.6,19.2,and 187.5 kbaud		
Freeport baudrates	0.3,0.6,1.2,2.4,4.8,9.6,19.2 and 38.4 kbaud		
Maximum cable length per segm	ent		
Up to 38.4 kbaud	1200m		
187.5 kbaud	1000m		
Maximum number of stations			
Per segment	32 stations		
Per network	126 stations		
Maximum number of masters	32 masters		
PPI master mode(NETR/NETW)	Yes		
MPI connections	8 total,2 reserved:1 for PG and 1OP		
Input Features			
Number of integrated inputs	14 inputs		
Input type	Sink/Source(IEC Type 1 sink)		
Input Voltage			
Maxumum continuous	20 VDC		
permissible	30 VDC		
Surge	35 VDC for 0.5 s		
Rated value	24 VDC at 4 mA, nominal		
Logic 1 signal(minimum)	15 VDC at 2.5 mA, minimum		
Logic 0 signal(maximum)	5 VDC ata 1mA, maximum		
Isolation(Field Side to Logic Circuit)			
Optical isolation(Galvanic)	500 VAC for 1 minute		
Isolation groups of	8 points		
Input Delay Times			
Filtered inputs and interrupt	0.3 to 13.9 ms, usor coloctable		
inputs	0.2 to 12.8 ms, user-selectable		

HSC Clock Input Rate			
Single Phase			
Logic 1 lever = 15 to 30 VDC	20 kHz, maximum		
Logic 1 lever = 15 to 26 VDC	30 kHz, maximum		
Quadrature			
Logic 1 lever = 15 to 30 VDC	10 kHz, maximum		
Logic 1 lever = 15 to 26 VDC	20 kHz, maximum		
Connection of 2 Wire Proximity So	ensor(Bero)		
Premissible leakage current	1 mA, maximum		
Cable Length			
Unshielded(not HSC)	300 m		
Shielded	500 m		
HSC inputs, shielded	50 m		
Number of inputs ON Simultaneo	usly		
40°C	14		
50°C	14		
Output Feature			
Number of integrated outputs	10 outputs	10 outputs	
Output type	Solid State-MOSFET	Relay, dry contact	
Output voltage			
Permissible range	20.4 to 28.8 VDC	5 to 30VDC or 5 to 250 VAC	
Rated value	24 VDC	-	
Logic 1 signal at maximum current	20 VDC, minimum	-	
Logic 0 signal with 10 kohm load	0.1 VDC, maximum	_	
Output Current			
Logic 1 signal	0.75A	2A	
Number of output groups	2	3	

Number of systems			
Number of output	10	10	
ON(maximum)			
Per group-horizontal	5	4/3/3	
mounting(maximum)		., , , ,	
Per group-vertical	5 4	4/3/3	
mounting(maximum)		.,,,,,	
Maximum current per	3.75A	8A	
common/group	5.75A		
Lamp load	5W	30W DC/200W AC	
ON state resistance(contact	0.3 ohm		
resistance)	0.5 01111	0.2 ohm,maximum when new	
Leakage current per point	1 0 μA, maximum	-	
Surge current	8A for 100 ms, maximum	7A with contacts closed	
Overload protection	No	No	
Isolation			
Optical isolation(galvanic)	500 VAC for 1 minute	-	
Isolation resistance	-	100 Mohm, minimum when new	
Isolation coil to contact	-	1500 VAC for 1 minute	
Isolation between open		750.VAC for 1 minute	
contacts	-	750 VAC for 1minute	
In group of	5 points	3 points	
Inductive Load Clamping			
Repetitive energy	4347 11 1	-	
dissipation	1W, all channels		
Clamp voltage limits	L+ minus 48V	-	
Output Delay			
Off to On	15µs,maximum	-	
On to Off	100μs,maximum	-	
Switching Frequency(pulse train outputs)			
Q0.0 and I0.0	20 kHz, maximum	1 Hz, maximum	
Relay			
Switching delay	-	10 ms,maximum	
Lifetime mechanical(no load)	-	20,000,000 open/close cycles	
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Lifetime contacts at rated load(2A)	-	300,000 open/close cycles
Cable Length		
Shielded	500 m	500 m
Unshielded	150 m	150 m

## Accessory

- 1. RS232 Programmable Cable
- 2. Battery
- 3. Memory Card

Wiring Diagram

## Raspored pinova komunikacionog porta

		<u> </u>	
DB9 Female	PIN	FPORT	PORT0
	1	Shell Ground	Shell Ground
	2	Logical Ground	Logical Ground
	3	RS485 Signal B	RS485 Signal B
	4	Send Request	Send Request
	5	Logical Ground	Logical Ground
6		+5V , 100Ω	Reserved
	7	+24V	RS232 Signal TXD
	8	RS485 Signal A	RS485 Signal A
	9	Reserved	RS232 Signal RXD
	Shell	Shell Ground	Shell Ground