

APP988 Controller Selection Guide

Product	CHANNELS AND TRIGGERING			OUTPUT AND PULSING						ADVANCED FEATURES	COMMUNICATION INTERFACES				
	Channels	Advanced Trigger Timing	Trigger o/ps	Maximum Current Rating Per Channel			Power		Pulsing		SafeSense™ SafePower™	P-Button	Ethernet	RS232	GigE Vision
				Continuous (A)	Pulsed (A)	Resolution (mA)	Max Avg o/p Power per Channel (W)	Max Avg o/p Power per Controller (W)	Min pulse width (µs)	Max Controller Frequency					

RC Series Entry-Level Controllers

RC120	1	-	-	1.2	2	3	25	25	100	100Hz	●	●	●	-	●
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TR-RC Trinitri Controllers

TR-RC120	1	-	-	1.2	2	3	25	25	100	100Hz	●	●	●	-	●
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RT Series Versatile Lighting Controllers

RT220-2	2	-	-	2	2	1	30	40	20	1kHz	●	-	●	-	●
RT220-20	2	-	-	3	20	5	30	40	20	1kHz	●	-	●	-	●
RT220F-2	2	-	-	2	2	1	30	40	1	1kHz	●	-	●	-	●
RT220F-20	2	-	-	3	20	5	30	40	1	1kHz	●	-	●	-	●
RT260-2	2	-	-	2	2	1	30	40	20	1kHz	●	-	-	●	-
RT260-20	2	-	-	3	20	5	30	40	20	1kHz	●	-	-	●	-
RT260F-2	2	-	-	2	2	1	30	40	1	1kHz	●	-	-	●	-
RT260F-20	2	-	-	3	20	5	30	40	1	1kHz	●	-	-	●	-
RT420-2	4	-	-	2	2	1	30	50	20	1kHz	●	-	●	-	●
RT420-20	4	-	-	3	20	5	30	50	20	1kHz	●	-	●	-	●
RT420F-2	4	-	-	2	2	1	30	50	1	1kHz	●	-	●	-	●
RT420F-20	4	-	-	3	20	5	30	50	1	1kHz	●	-	●	-	●
RT460-2	4	-	-	2	2	1	30	50	20	1kHz	●	-	-	●	-
RT460-20	4	-	-	3	20	5	30	50	20	1kHz	●	-	-	●	-
RT460F-2	4	-	-	2	2	1	30	50	1	1kHz	●	-	-	●	-
RT460F-20	4	-	-	3	20	5	30	50	1	1kHz	●	-	-	●	-
RT820F-2	8	-	-	2	2	1	30	100	1	1kHz	●	-	●	-	-
RT820F-20	8	-	-	3	20	5	30	100	1	1kHz	●	-	●	-	-
RT860F-2	8	-	-	2	2	1	30	100	1	1kHz	●	-	-	●	-
RT860F-20	8	-	-	3	20	5	30	100	1	1kHz	●	-	-	●	-

TR-RT Trinitri Lighting Controllers

TR-RT220-2	2	-	-	2	2	1	30	40	20	1kHz	●	-	●	-	●
TR-RT220-20	2	-	-	3	20	5	30	40	20	1kHz	●	-	●	-	●
TR-RT220F-2	2	-	-	2	2	1	30	40	1	1kHz	●	-	●	-	●
TR-RT220F-20	2	-	-	3	20	5	30	40	1	1kHz	●	-	●	-	●
TR-RT420-2	4	-	-	2	2	1	30	50	20	1kHz	●	-	●	-	●
TR-RT420-20	4	-	-	3	20	5	30	50	20	1kHz	●	-	●	-	●
TR-RT420F-2	4	-	-	2	2	1	30	50	1	1kHz	●	-	●	-	●
TR-RT420F-20	4	-	-	3	20	5	30	50	1	1kHz	●	-	●	-	●

RTCC Versatile Lighting Controllers with Trigger Timing Control

RTCC420-2	4	-	-	2	2	1	30	50	20	1kHz	●	-	●	-	●
RTCC420-20	4	-	-	3	20	5	30	50	20	1kHz	●	-	●	-	●
RTCC420F-2	4	-	-	2	2	1	30	50	1	1kHz	●	-	●	-	●
RTCC420F-20	4	-	-	3	20	5	30	50	1	1kHz	●	-	●	-	●
RT4CC60-2	4	-	-	2	2	1	30	50	20	1kHz	●	-	-	●	-
RTCC460-20	4	-	-	3	20	5	30	50	20	1kHz	●	-	-	●	-
RTCC460F-2	4	-	-	2	2	1	30	50	1	1kHz	●	-	-	●	-
RTCC420F-20	4	-	-	3	20	5	30	50	1	1kHz	●	-	-	●	-

Product	CHANNELS AND TRIGGERING			OUTPUT AND PULSING						ADVANCED FEATURES		COMMUNICATION INTERFACES				
	Channels	Advanced Trigger Timing	Trigger o/ps	Maximum Current Rating Per Channel			Power		Pulsing		SafeSense™	SafePower™	P-Button	Ethernet	RS232	GigE Vision
				Continuous (A)	Pulsed (A)	Resolution (mA)	Max Avg o/p Power per Channel (W)	Max Avg o/p Power per Controller (W)	Min pulse width (µs)	Max Controller Frequency						

PP Series Lighting Controllers for Volume Applications

PP4/PP5 OEM lighting controllers

PP420	4	-	-	2	10	3	*	*	20	25kHz	SafeSense	-	●	-	-
PP420F	4	-	-	2	10	3	*	*	1	50kHz	SafeSense	-	●	-	-
PP520	2	-	-	2	10	3	*	*	20	25kHz	SafeSense	●	●	-	-
PP520F	2	-	-	2	10	3	*	*	1	50kHz	SafeSense	●	●	-	-

PP8, PP16 high performance 8 and 16 channel controllers for fast applications

PP820	8	-	-	2	20	100	*	*	1	100kHz	-	-	●	-	-
PP820C	8	-	-	2	20	5	*	*	1	100kHz	-	-	●	-	-
PP821	8	-	-	2	2	10	*	*	1	100kHz	-	-	●	-	-
PP821C	8	-	-	2	2	0.5	*	*	1	100kHz	-	-	●	-	-
PP822	8	-	-	2	5	25	*	*	1	100kHz	-	-	●	-	-
PP822C	8	-	-	2	5	1.5	*	*	1	100kHz	-	-	●	-	-
PP860	8	-	-	2	20	100	*	*	1	100kHz	-	-	-	●	-
PP860C	8	-	-	2	20	5	*	*	1	100kHz	-	-	-	●	-
PP861	8	-	-	2	2	10	*	*	1	100kHz	-	-	-	●	-
PP861C	8	-	-	2	2	0.5	*	*	1	100kHz	-	-	-	●	-
PP862	8	-	-	2	5	25	*	*	1	100kHz	-	-	-	●	-
PP862C	8	-	-	2	5	1.5	*	*	1	100kHz	-	-	-	●	-
PP1620	16	-	-	2	20	5	*	*	1	100kHz	-	-	●	-	-
PP1621	16	-	-	2	2	1	*	*	1	100kHz	-	-	●	-	-
PP1660	16	-	-	2	20	5	*	*	1	100kHz	-	-	-	●	-
PP1661	16	-	-	2	2	1	*	*	1	100kHz	-	-	-	●	-

PPCC16 high performance 16 channel controllers with trigger timing control

PPCC1620	16	●	8	2	20	5	*	*	1	100kHz	-	-	●	-	-
PPCC1621	16	●	8	2	2	1	*	*	1	100kHz	-	-	●	-	-
PPCC1660	16	●	8	2	20	5	*	*	1	100kHz	-	-	-	●	-
PPCC1661	16	●	8	2	2	1	*	*	1	100kHz	-	-	-	●	-

*Note: Limited by controller heat dissipation which is dependent on power supply voltage, light voltage and current. Please see user manual.

High Power Controllers

TR-HT220-50	2	●	8	5	50	0.6/15	150	300	1	30kHz	●	-	●	-	●
TR-HT260-50	2	●	8	5	50	0.6/15	150	300	1	30kHz	●	-	-	●	-

Trigger Timing Controller

	Digital Inputs	Digital Outputs								P-Button	Ethernet	RS232	GigE Vision
CC320	8	8	-	-	-	-	-	-	-	●	●	-	-

Optotune Liquid Lens Controller

	Input	Output								P-Button	Ethernet	RS232	GigE Vision
TR-CL180	Digital (3V - 24V) Analogue (0-10V)	-400mA to +400mA	-	-	-	-	-	-	-	●	●	●	●