

Pulse Output Specifications	
Channels Used	Any one of the channels can be used for Pulse Output. However, the use of a particular channel for outputting pulses will render the particular input channel unusable for either of pulse or frequency input.
Digital Output Type	Open Collector, 5 to 24V, 30 mA max.
Frequency Range	25 Hz – 10KHz
Duty Cycle	Always 50%
Pulse Output Duration	Selectable CONTINUOUS or NUMBERED PULSES.

2.5.14. IOM scan time

I/O module	IOM scan time (in local I/O rack or remote I/O)
900U01-0100 - Universal Input/Output Module	10ms
900A01-0202 - Universal Analog Input -RTD, TC, V, 8 Channel	500ms
900A16-0103 - Analog Input High Level, 16 Channel	100ms
900B01-0301 - Analog Output, 0 to 20 mA, 4 Channel	500ms
900B08-0202 - Analog Outputs 0 to 20mA, 8 Channel	500ms
900G03-0202 - Digital Input, 120/240 VAC, 16 Channel	10ms
900G32-0101 - Digital Input, 24 VDC, 32 Channel	10ms
900G01-0202 - Digital Input, Contact type, 16 Channel	10ms
900G04-0101 - Digital Input, 120/240 VAC-125VDC, (16 channel Isolated)	10ms
900H03-0202 - Digital Output, 120/240 VAC 8 Channel	10ms
900H32-0102 - Digital Output, 24 VDC 32 Channel	10ms
900H01-0202 - Digital Output - Relay, 8 Channel	10ms
900K01-0201 - Pulse/Freq Input, 4 Channel	10ms

2.6. I/O Wiring

Remote Termination Panel provides an easy way to terminate field wiring away from I/O Module. Remote Terminal block plugs on to IO modules and are not required if RTP cables are used.

Type	Removable terminal blocks (900TEK-0200, 900TER-0200, 900TCK-0200, 900TBR-0200, 900TBK-0200)	Remote Terminal Panel¹ (900RTS-0001,900RTA-L001)
Terminal Block Styles	20 screw: Barrier or Euro-style, gold-plated 36 screw: Euro style, gold-plated	40 screw: Euro-style
Wire Size	20-screw: Euro-style - 0.1 mm ² to 2.0 mm ² (#14 to 26 AWG) solid or stranded Barrier style - 0.1 mm ² to 2.0 mm ² (#14 to 26 AWG) solid or stranded 36-screw: Euro-style – 0.1 mm ² to 3.0 mm ² (#12 to 26 AWG) solid or stranded 40-screw: Euro-style – 0.1 mm ² to 3.0 mm ² (#12 to 26 AWG) solid or stranded	
Shield terminals (900TSS-0001)	Optional brackets mounted top/bottom of rack. Each strip is 4 slots long with 4 screws.	

Type	Removable terminal blocks (900TEK-0200, 900TER-0200, 900TCK-0200, 900TBR-0200, 900TBK-0200)	Remote Terminal Panel ¹ (900RTS-0001,900RTA-L001)
RTP Cable	N/A	Low Voltage RTP Cable (1.0M, 3.28ft.) Low Voltage RTP Cable (2.5M, 8.2ft.) Low Voltage RTP Cable (5.0M, 16.4ft.) High Voltage RTP Cable (1.0M, 3.28ft.) High Voltage RTP Cable (2.5M, 8.2ft.) High Voltage RTP Cable (5.0M, 16.4ft.) Low Power 16/32CH RTP Cable (1.0M, 3.28ft.) Low Power 16/32CH RTP Cable (2.5M, 8.2ft.) Low Power 16/32CH RTP Cable (5.0M, 16.4ft.) AO - 8 Ch 1.0 M RTP Cable (1.0M, 3.28ft.) AO - 8 Ch 1.0 M RTP Cable (2.5M, 8.2ft.) AO - 8 Ch 1.0 M RTP Cable (5.0M, 16.4ft.)
RTP Dimensions	N/A	4.38" L x 3.70" W x 2.60" H 111.1mm L x 94.0mm W x 66.0mm H
Terminal load rating ²	4.2A	2.8A (Low Voltage RTP Cable) 4.2 A (High Voltage RTP Cable)
Note: 1. Standard 35mm wide DIN Rail. Provides connection of field wiring to I/O within an enclosure only. 2. External power supply provides power input for UIO, current load rating needs to be align with cable rating.		

Below table list the relationship between all I/O modules and their related terminal block or RTP.

I/O Module	Terminal Block (Euro)	Terminal Block (Barrier)	RTP	RTP required per module	RTP Cable
900U01-0100	900TEK-0200	900TBK-0200	900RTS-0001	1	900RTC-H2xx 900RTC-L2xx
900A01-0202	900TEK-0200	900TBK-0200	900RTA-L001	1	900RTC-L2xx
900A16-0103	900TCK-0200	N/A	900RTS-0001	2	900RTC-34xx
900B01-0301	900TEK-0200	900TBK-0200	900RTS-0001	1	900RTC-L2xx
900B08-0202	900TCK-0200	N/A	900RTS-0001	1	900RTC-BAxx
900G03-0202	900TER-0200	900TBR-0200	900RTS-0001	1	900RTC-H2xx
900G32-0101	900TCK-0200	N/A	900RTS-0001	2	900RTC-34xx
900G01-0202	900TEK-0200	900TBK-0200	900RTS-0001	1	900RTC-L2xx
900G04-0101	900TCK-0200	N/A	N/A	N/A	N/A
900H03-0202	900TER-0200	900TBR-0200	900RTS-0001	1	900RTC-H2xx
900H32-0102	900TCK-0200	N/A	900RTS-0001	2	900RTC-34xx
900H01-0202	900TER-0200	900TBR-0200	900RTR-H001	1	900RTC-H2xx
900K01-0201	900TEK-0200	900TBK-0200	N/A	N/A	N/A

2.7. Power Supply

2.7.1. 120/240VAC Power Supply (900P01-0301)

Item	Specification
Voltage	90 to 264 V AC, 47 to 63 Hz
Current	1.4 A Max continuous
Inrush Current	40 Amps peak-to-peak for 120 ms at 240 V AC
Input rating	130 VA
Output rating	58W
Fuse	Internal non-replaceable fuse.
Power Supply Hold up time	20milliseconds @ 115V AC, 60HZ maximum Load
Wiring	Screw type terminals, 0.3 mm ² to 3.3 mm ² (#12-22AWG)
Test jacks	5 V DC, 24 V DC

2.7.2. 24VDC Power supply (900P24-0301)

Item	Specification
Voltage	21 to 29V DC
Current	5A Max. continuous
Inrush Current	30A for 3ms @ 29V DC
Input rating	72.5W
Output rating	58W
Fuse	Internal non-replaceable fuse.
Power Supply Hold up time	20 milliseconds @ 24V DC, maximum Load
Wiring	Screw type terminals, 0.3 mm ² to 3.3 mm ² (#12-22AWG)

2.8. Power Status Module (900PSM-0200)

Item	Specification
Status indication	Green directional indicators using LEDs
Power supply Loading	5V;22mA Max

2.9. ControlEdge Builder Specification

ControlEdge Builder is ControlEdge PLC's configuration tool to design, configure, program and maintain your PLC project

2.9.1. ControlEdge Builder Capabilities

Item	Specification
IEC 61131-3 Programming	Yes
Controller Simulator	Yes ¹
Programming Languages	Ladder Diagram (LD) Function Block Diagram (FBD) Structured Text (ST) Instruction List (IL) Sequential Function Chart (SFC)

3	900R08-0200	8 I/O Slot Rack – Non-Redundant Power (Assembly)
4	900R12-0200	12 I/O Slot Rack – Non-Redundant Power (Assembly)
5	900R08R-0200	8 I/O Slot Rack – Redundant Power (Assembly)
6	900R12R-0200	12 I/O Slot Rack – Redundant Power (Assembly)
Control Processor Module		
7	900CP1-0200	Control Processor Module
Expansion Processor Module		
8	900SP1-0200	Expansion Processor Module
9	900ES1-0100	4 port serial communications module, 2 x RS232, 2 x RS485
IO Module		
10	900U01-0100	Universal IO Module
11	900A01-0202	Universal AI, RTD, TC, V, 8 Ch
12	900A16-0103	Analog Input high level (16 channel)
13	900B01-0301	Analog Output, 0 to 20mA, (4 channel)
14	900B08-0202	Analog Outputs 0 to 20mA (8 channel, 5 modules/rack)
15	900G03-0202	Digital Input 120/240 VAC, 16 Ch
16	900G32-0101	Digital Input 24VDC, 32Ch
17	900G01-0202	Digital Input, Contact type, (16 channel)
18	900G04-0101	Digital Input, 120/240 VAC-125VDC, (16 channel Isolated)
19	900H03-0202	Digital Output, 120/240 VAC, 8 Ch
20	900H32-0102	Digital Output, 24VDC, 32 Ch
21	900H01-0202	Digital Output, Relays (8 channel)
22	900K01-0201	Pulse/Freq (4 channel)
Power Supply		
23	900P01-0301	120/240 V AC, 60W Power Supply
24	900P24-0301	24 V DC, 60W Power Supply
25	900PSM-0200	Redundant Power Status Module
Terminal Blocks		
26	900TEK-0200	TB Housing, Black 20 Position Euro style
27	900TER-0200	TB Housing, Red 20 Position Euro style
28	900TCK-0200	TB Housing, Black 36 Position Euro style
29	900TBR-0200	High Voltage Terminal Block (Barrier Style)
30	900TBK-0200	Low Voltage Terminal Block (Barrier Style)
RTP and RTP Cable		
31	900RTS-0001	DI, DO, AO Remote Terminal Panel (RTP)
32	900RTA-L001	Analog Input Remote Terminal Panel
33	900RTR-H001	Relay Output Remote Terminal Panel (RTP)
34	900RTC-L210	Low Voltage RTP Cable (1.0M, 3.28ft.)
35	900RTC-L225	Low Voltage RTP Cable (2.5M, 8.2ft.)
36	900RTC-L250	Low Voltage RTP Cable (5.0M, 16.4ft.)
37	900RTC-H210	High Voltage RTP Cable (1.0M, 3.28ft.)
38	900RTC-H225	High Voltage RTP Cable (2.5M, 8.2ft.)
39	900RTC-H250	High Voltage RTP Cable (5.0M, 16.4ft.)
40	900RTC-3410	RTP Cable, Low Power 16/32CH 1.0M 3.28ft
41	900RTC-3425	RTP Cable, Low Power 16/32CH 2.5M 8.2ft
42	900RTC-3450	RTP Cable, Low Power 16/32CH 5.0M 16.4ft