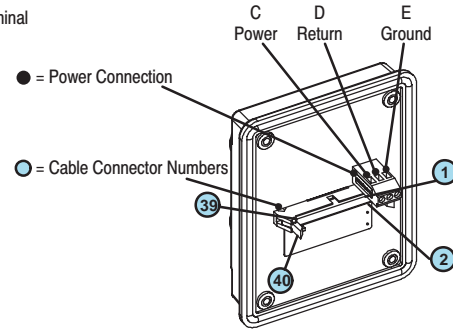
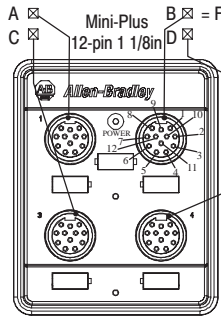


# Combination Modules for Inputs and Outputs



## Specifications

<b>Catalog Number</b>	<b>1667-32CD1201</b>
Field Connector: No. of Pins Style	12-Pin Mini-Plus (1 1/8 in)
Module Type	16 Input
Number Points	32 Point Combination
Degree of Protection	IP65; NEMA 1, 4, 12
Voltage Rating	10-30V DC
Maximum Peak Voltage	600V <sub>p</sub>
Maximum Current (per Circuit)	2A
Maximum Current (per Module)	12A
Indicator Circuit Current (Nominal)	2mA
No. of Terminals per Device Common	2
Operating Temperature Range	0°C to +60°C (32°F to +140°F); Noncondensing
Certifications	<ul style="list-style-type: none"> <li>cULus-Listed (File E113724 Guide NRAQ)</li> <li>CE</li> </ul>

### Power Supply Connector Specification

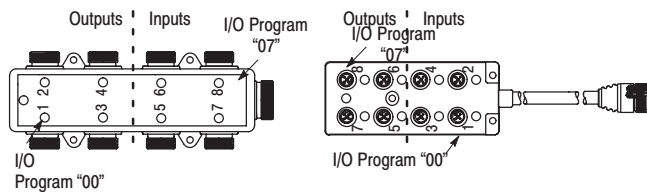
Wire Range (Rated Cross Section)	#22-#12 AWG (0.2-4mm <sup>2</sup> )
Wire Strip Length	8mm (0.32in)
Recommended Tightening Torque	0.50-0.60Nm (4.5-5.5lb-in)

ⓘ Transient voltage greater than 600V<sub>p</sub> use a UL Recognized suppression device rated at 2.5 kV withstand.

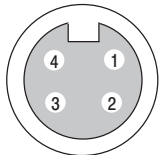
Connector Pin Reference I/O In ●	Field Side Connector ☒	Connector Pin Reference I/O Out ●	Field Side Connector ☒
1	—	1	A12, B12
2	—	2	C12, D12
3	A1	3	A5
4	A2	4	A6
5	A3	5	A7
6	A4	6	A8
7	B1	7	B5
8	B2	8	B6
9	B3	9	B7
10	B4	10	B8
11	C1	11	C5
12	C2	12	C6
13	C3	13	C7
14	C4	14	C8
15	D1	15	D5
16	D2	16	D6
17	D3	17	D7
18	D4	18	D8
19	A11, B11	19	A11, B11
20	C11, D11	20	C11, D11

## Distribution Block Connection

Match I/O Program to Distribution Block outputs in the sequence shown below:

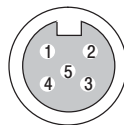


Power Pin Ref.	
C	A12, B12, C12, D12
D	A11, B11, C11, D11
E	A9, B9, C9, D9



Face View Female Single Input

- 1. Load
- 2. Com
- 3. +V
- 4. N/C

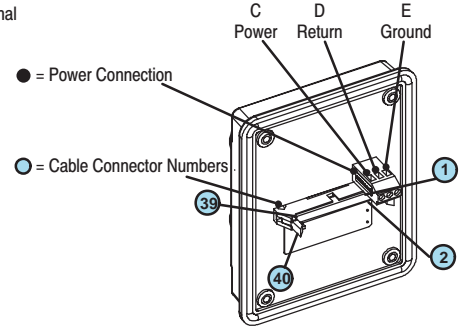
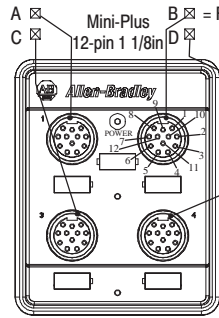


Face View Female Single Input

- 1. +V
- 2. N/C
- 3. Com
- 4. Load
- 5. Gnd

## Application Notes

- Compatibility** — To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the PanelConnect Module.
- Dimensions** — Refer to page 4-31.



**Specifications**

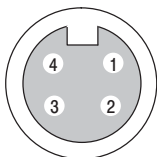
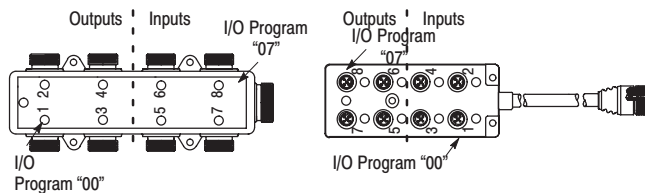
Catalog Number	1667-32CD1202
Field Connector: No. of Pins Style	12-Pin Mini-Plus (1 1/8 in)
Module Type	16 Input
Number Points	32 Point Combination
Degree of Protection	IP65; NEMA 1, 4, 12
Voltage Rating	10-30V DC
Maximum Peak Voltage	600V <sub>p</sub>
Maximum Current (per Circuit)	2A
Maximum Current (per Module)	12A
Indicator Circuit Current (Nominal)	2mA
No. of Terminals per Device Common	2
Operating Temperature Range	0°C to +60°C (32°F to +140°F); Noncondensing
Certifications	<ul style="list-style-type: none"> <li>cULus-Listed (File E113724 Guide NRAQ)</li> <li>CE</li> </ul>

Power Supply Connector Specification	
Wire Range (Rated Cross Section)	#22-#12 AWG (0.2-4mm <sup>2</sup> )
Wire Strip Length	8mm (0.32in)
Recommended Tightening Torque	0.50-0.60Nm (4.5-5.5lb-in)

• Transient voltage greater than 600V<sub>p</sub> use a UL Recognized suppression device rated at 2.5 kV withstand.

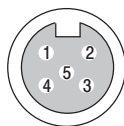
**Distribution Block Connection**

Match I/O Program to Distribution Block outputs in the sequence shown below:



**Face View Female Single Input**

- 1. Load
- 2. Com
- 3. +V
- 4. N/C



**Face View Female Single Input**

- 1. +V
- 2. N/C
- 3. Com
- 4. Load
- 5. Gnd

Connector Pin Reference I/O In ●	Field Side Connector ☒	Connector Pin Reference I/O Out ●	Field Side Connector ☒
1	A11, B11	15	A12, B12, C12, D12
2	C11, D11	2	A11, B11, C11, D11
3	A1	3	A5
4	A2	4	A6
5	A3	5	A7
6	A4	6	A8
7	B1	7	B5
8	B2	8	B6
9	B3	9	B7
10	B4	10	B8
11	C1	11	C5
12	C2	12	C6
13	C3	13	C7
14	C4	14	C8
15	D1	15	D5
16	D2	16	D6
17	D3	17	D7
18	D4	18	D8
19	A11, B11	19	A12, B12, C12, D12
20	C11, D11	20	A11, B11, C11, D11

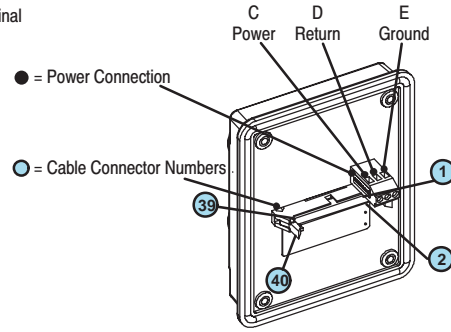
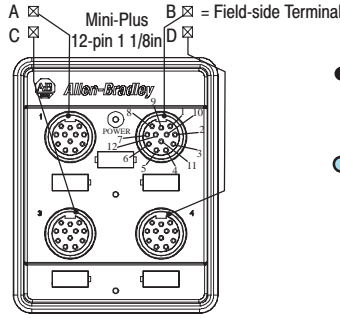
**Power Pin Ref.**

C	A12, B12, C12, D12
D	A11, B11, C11, D11
E	A9, B9, C9, D9

**Application Notes**

- Compatibility** — To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the PanelConnect Module.
- Dimensions** — Refer to page 4-31.

# Combination Modules for Inputs and Outputs



## Specifications

Catalog Number	1667-32CD1203
Field Connector: No. of Pins Style	12-Pin Mini-Plus (1 1/8 in)
Module Type	16 Input
Number Points	32 Point Combination
Degree of Protection	IP65; NEMA 1, 4, 12
Voltage Rating	10-30V DC
Maximum Peak Voltage	600V <sub>p</sub>
Maximum Current (per Circuit)	2A
Maximum Current (per Module)	12A
Indicator Circuit Current (Nominal)	2mA
No. of Terminals per Device Common	2
Operating Temperature Range	0°C to +60°C (32°F to +140°F); Noncondensing
Certifications	<ul style="list-style-type: none"> <li>cULus-Listed (File E113724 Guide NRAQ)</li> <li>CE</li> </ul>

### Power Supply Connector Specification

Wire Range (Rated Cross Section)	#22-#12 AWG (0.2-4mm <sup>2</sup> )
Wire Strip Length	8mm (0.32in)
Recommended Tightening Torque	0.50-0.60Nm (4.5-5.5lb-in)

ⓘ Transient voltage greater than 600V<sub>p</sub> use a UL Recognized suppression device rated at 2.5 kV withstand.

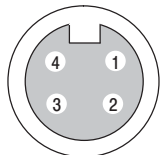
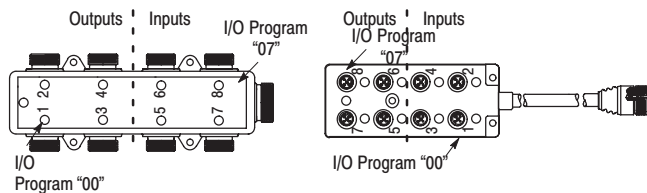
Connector Pin Reference I/O In ●	Field Side Connector ☒	Connector Pin Reference I/O Out ●	Field Side Connector ☒
1	—	1	A12, B12
2	—	2	C12, D12
3	A1	3	A5
4	A2	4	A6
5	A3	5	A7
6	A4	6	A8
7	B1	7	B5
8	B2	8	B6
9	B3	9	B7
10	B4	10	B8
11	C1	11	C5
12	C2	12	C6
13	C3	13	C7
14	C4	14	C8
15	D1	15	D5
16	D2	16	D6
17	D3	17	D7
18	D4	18	D8
19	—	19	A12, B12, C12, D12
20	A11, B11, C11, D11	20	A11, B11, C11, D11

### Power Pin Ref.

C	—
D	—
E	—

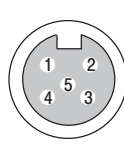
## Distribution Block Connection

Match I/O Program to Distribution Block outputs in the sequence shown below:



Face View Female Single Input

- 1. Load
- 2. Com
- 3. +V
- 4. N/C



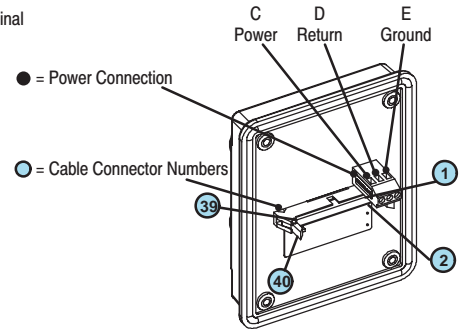
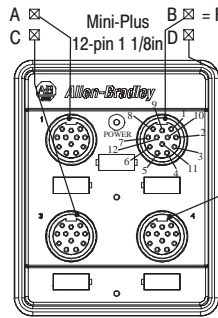
Face View Female Single Input

- 1. +V
- 2. N/C
- 3. Com
- 4. Load
- 5. Gnd

## Application Notes

- Compatibility** — To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the PanelConnect Module.
- Wiring** — Refer to the label section on page 99. For field-side wiring diagrams, refer to the Wiring System web site information on page 112.
- Dimensions** — Refer to page 4-31.

**1667-32CD1204**



**Specifications**

Catalog Number	1667-32CD1204
Field Connector: No. of Pins Style	12-Pin Mini-Plus (1 1/8 in)
Module Type	16 Input
Number Points	32 Point Combination
Degree of Protection	IP65; NEMA 1, 4, 12
Voltage Rating	10-30V DC
Maximum Peak Voltage	600V <sub>p</sub>
Maximum Current (per Circuit)	2A
Maximum Current (per Module)	12A
Indicator Circuit Current (Nominal)	2mA
No. of Terminals per Device Common	2
Operating Temperature Range	0°C to +60°C (32°F to +140°F); Noncondensing
Certifications	<ul style="list-style-type: none"> <li>cULus-Listed (File E113724 Guide NRAQ)</li> <li>CE</li> </ul>

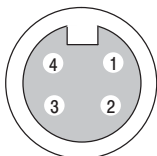
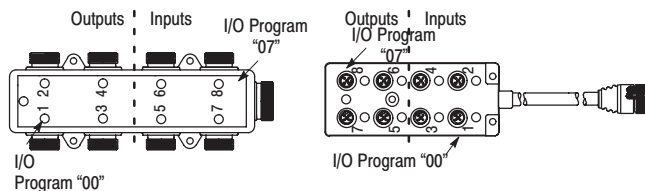
**Power Supply Connector Specification**

Wire Range (Rated Cross Section)	#22-#12 AWG (0.2-4mm <sup>2</sup> )
Wire Strip Length	8mm (0.32in)
Recommended Tightening Torque	0.50-0.60Nm (4.5-5.5lb-in)

• Transient voltage greater than 600V<sub>p</sub> use a UL Recognized suppression device rated at 2.5 kV withstand.

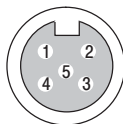
**Distribution Block Connection**

Match I/O Program to Distribution Block outputs in the sequence shown below:



**Face View Female  
Single Input**

- 1. Load
- 2. Com
- 3. +V
- 4. N/C



**Face View Female  
Single Input**

- 1. +V
- 2. N/C
- 3. Com
- 4. Load
- 5. Gnd

Connector Pin Reference I/O In ●	Field Side Connector ☒	Connector Pin Reference I/O Out ●	Field Side Connector ☒
1	A12, B12	15	A12, B12
2	C12, D12	2	C12, D12
3	A1	3	A5
4	A2	4	A6
5	A3	5	A7
6	A4	6	A8
7	B1	7	B5
8	B2	8	B6
9	B3	9	B7
10	B4	10	B8
11	C1	11	C5
12	C2	12	C6
13	C3	13	C7
14	C4	14	C8
15	D1	15	D5
16	D2	16	D6
17	D3	17	D7
18	D4	18	D8
19	A12, B12	19	A11, B11
20	C12, D12	20	C11, D11

**Power Pin Ref.**

C	A12, B12, C12, D12
D	A11, B11, C11, D11
E	A9, B9, C9, D9

**Application Notes**

- Compatibility** — To ensure proper operation with the I/O module, do not exceed the voltage and current ratings of the PanelConnect Module.
- Dimensions** — Refer to page 4-31.