

# Preface

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This manual provides the information needed to install, wire, and configure the SIMATIC® TI505™ Input/Output modules listed below.

- Discrete Input Modules (AC Input):

PPX:505-4008	PPX:505-4016	PPX:505-4032
PPX:505-4008-A	PPX:505-4016-A	PPX:505-4032-A
PPX:505-4208	PPX:505-4216	PPX:505-4232
PPX:505-4208-A	PPX:505-4216-A	PPX:505-4232-A
PPX:505-4408	PPX:505-4416	PPX:505-4432*
PPX:505-4408-A	PPX:505-4416-A	PPX:505-4432-A*
  
- Discrete Input Modules (DC Input):

PPX:505-4108	PPX:505-4116	PPX:505-4132
PPX:505-4308	PPX:505-4316	PPX:505-4332
PPX:505-4316-A		
  
- Discrete Output Modules (DC Sinking):

PPX:505-3508	PPX:505-3516	PPX:505-3532
PPX:505-3708*	PPX:505-3716*	PPX:505-3732*
  
- Discrete Output Modules (DC Sourcing):

PPX:505-4508	PPX:505-4516	PPX:505-4532
PPX:505-4708*	PPX:505-4716*	PPX:505-4732*
  
- Discrete Output Modules (AC Output):

PPX:505-4608	PPX:505-4616	PPX:505-4632
PPX:505-4808*	PPX:505-4816*	PPX:505-4832*
  
- Relay Output Modules:

PPX:505-4908	PPX:505-4916	PPX:505-4932*
PPX:505-5417		
PPX:505-5518		
  
- Word Input Module:

PPX:505-6308*		
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- Word Output Module:

PPX:505-6408*		
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- Input Simulator:

PPX:505-6010		
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- Output Simulator:

PPX:505-6011		
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\* double-wide

## Wiring the Discrete Input and Output Modules (continued)

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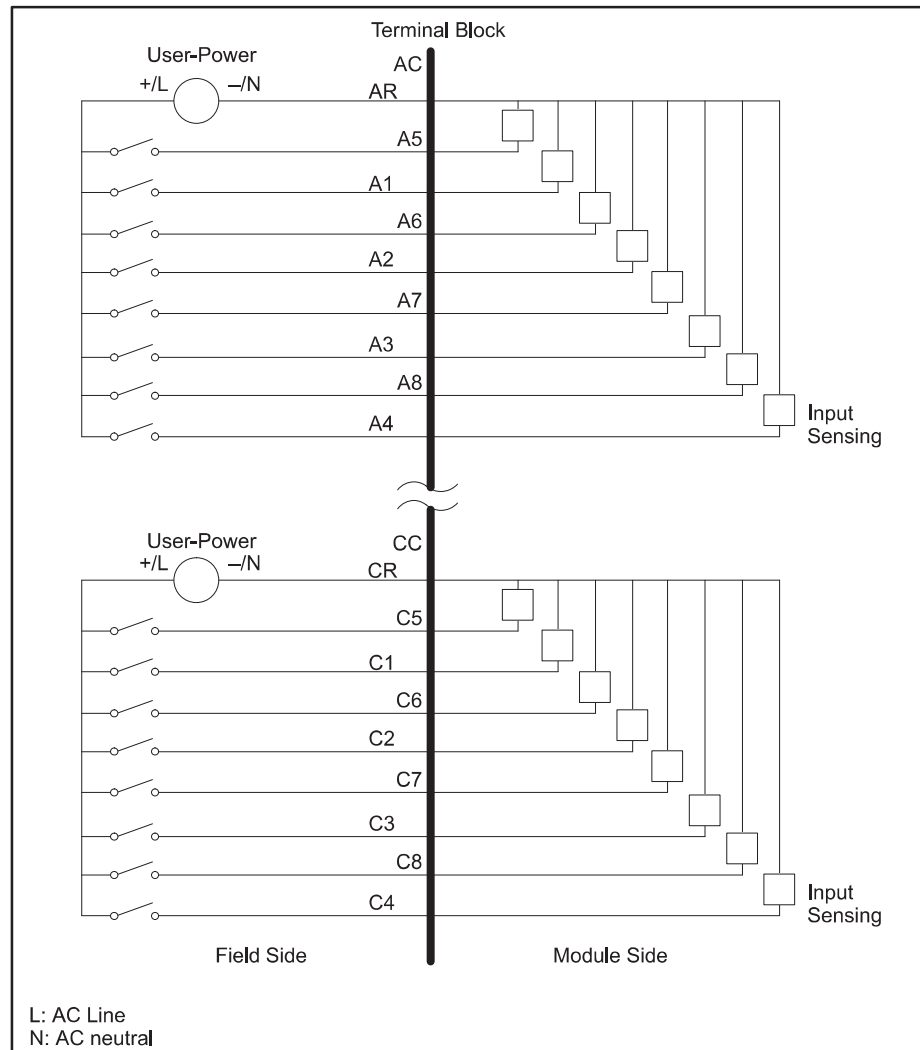
Table 3-1 Terminal Block Pin-out: 32-Point Discrete Input Modules  
(PPX:505-4032(A), PPX:505-4132, PPX:505-4232(A), PPX:505-4332, and  
PPX:505-4432(A))

User Connection	User Connection
AR = Return for 1-8	AC = Not Used
A1 = Input 1	A5 = Input 5
A2 = Input 2	A6 = Input 6
A3 = Input 3	A7 = Input 7
A4 = Input 4	A8 = Input 8
BR = Return for 9-16	BC = Not Used
B1 = Input 9	B5 = Input 13
B2 = Input 10	B6 = Input 14
B3 = Input 11	B7 = Input 15
B4 = Input 12	B8 = Input 16
CR = Return for 17-24	CC = Not Used
C1 = Input 17	C5 = Input 21
C2 = Input 18	C6 = Input 22
C3 = Input 19	C7 = Input 23
C4 = Input 20	C8 = Input 24
DR = Return for 25-32	DC = Not Used
D1 = Input 25	D5 = Input 29
D2 = Input 26	D6 = Input 30
D3 = Input 27	D7 = Input 31
D4 = Input 28	D8 = Input 32

## Field Wiring (continued)

### Typical Connections

Figure 3-7 through Figure 3-15 shows typical connections for all the I/O modules.



**Figure 3-7 Typical Sinking Connection for 32-Point Discrete Input Modules (PPX:505-4032(A), PPX:505-4132, PPX:505-4232(A), PPX:505-4332, and PPX:505-4432(A))**

Table A-5 Electrical Specifications for 110 VAC Input Modules (PPX:505-42xx (A))

Model Number	No. of Inputs	Module Width
PPX:505-4208 (-A)	8	Single-wide
PPX:505-4216 (-A)	16	Single-wide
PPX:505-4232 (-A)	32	Single-wide

Type of Inputs	IEC Type 1
Rated Voltage	100-115 VAC
Input voltage range for ON	79.0 VAC UH minimum; 132.0 VAC UH maximum
Input voltage range for OFF	0.0 VAC UL minimum; 20.0 VAC UL maximum
Input current limits during ON	4.0 mA IH minimum; 15.0 mA IH maximum
Max. input current for OFF	1.5 mA IT minimum
Delay time through module	6.0 ms minimum 30.0 ms maximum
Module power from base	2.0 W
Operating frequency	47 to 63 Hz

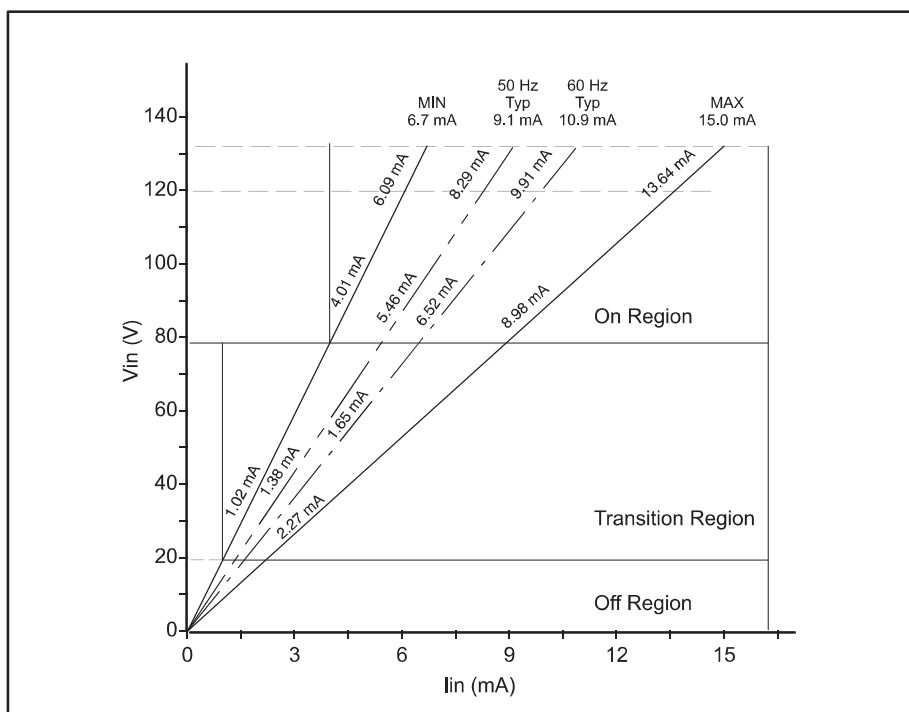


Figure A-3 Volt-Ampere Curve for PPX:505-42xx(-A) Modules