

2585 16-Point TTL Input Module



Specifications

- Inputs per module: 16
- Isolation:
 - 500 VDC channel-to-channel
 - 1500 VDC channel-to-backplane
- Input Voltage:
 - 2.6 to 28 VDC
 - TTL OFF <0.8 VDC
 - TTL ON > 2.6 VDC
 - 1500 VDC channel-to-backplane
- Input Current:
 - 20 mA max. per circuit (0.5 mA @ 2.6 VDC)
- Isolation:
 - 1500 VDC channel-to-backplane
- Turn ON Time: Approx. 1 mSec nominal
- Turn OFF Time: Approx. 2 mSec nominal
- PLC Reporting: X or WX (jumper selectable)
- Wire gauge: 14-22 AWG removable connectors
- Backplane power: 1.4 Watts (all outputs active)
- Module size: Single-wide
- Blown fuse indication: Front panel LED
- Operating temperature:
 - 0° to 60°C (32° to 140°F)
- Storage temperature:
 - 40° to 85°C (-40° to 185°F)
- Humidity, relative: 5% to 95% (non-condensing)
- Agency approvals:
 - UL, UL Canada, FM (Class I, Div 2)
- Shipping weight: 1 lb. (0.45 Kg)

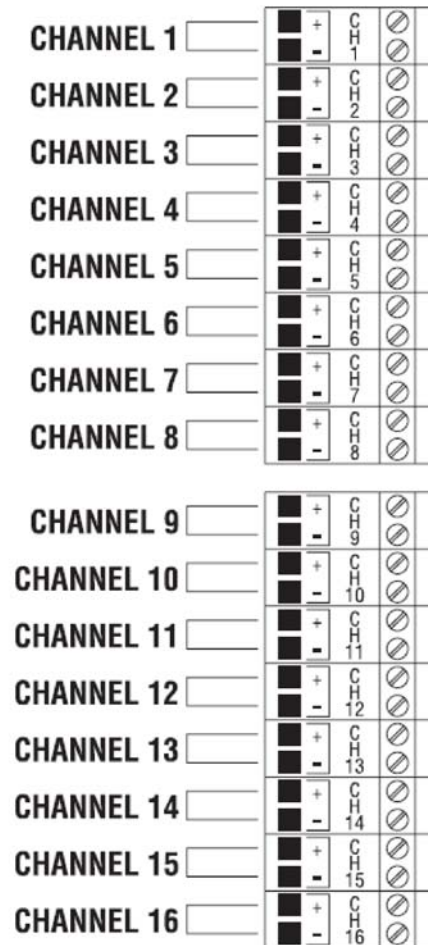
Description

The 2585 16-Point TTL Input Module accepts sixteen TTL driven inputs to the CTI 2500 Series™ or Simatic® 505 Series I/O base. The inputs are isolated channel-to-channel.

The 2585 has an input voltage range from 2.6 to 28 VDC; therefore, the inputs may be driven by CMOS and open collector transistor devices.

Features

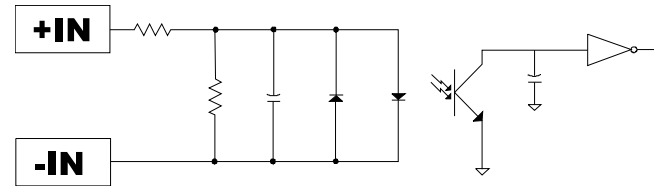
- CTI 2500 Series™ or Simatic® 505 Series I/O base format
- 500V channel-to-channel isolation
- 1500 VDC channel-to-PLC backplane



2585 Connector

2500 Series PLC System Product Bulletin



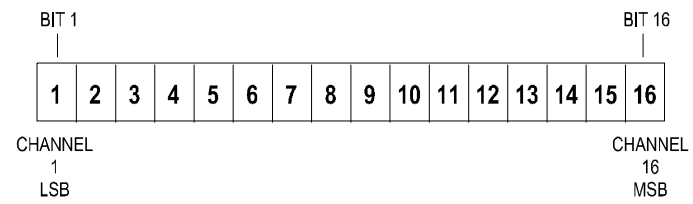


Typical Circuit

Word Mode

The 2585 may operate as a 16 Bit Word Input Module. By setting JP1 in Word Mode and using TISOFT to configure I/O the 2585 will look like a standard WX input module; for example WX1-WX8.

NOTE: The 2585 will be mapped as the first WX address (i.e. WX1). In Word Mode Channel 1 corresponds to bit 16 or LSB and Channel 16 corresponds to Bit 1 or MSB.



Changing Operating Modes

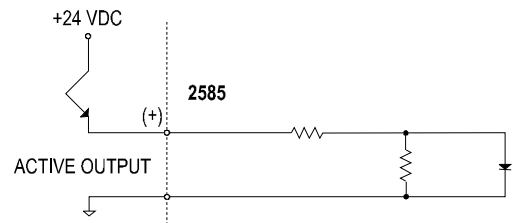
Any time the operating mode of the 2585 is changed with JP1, the module must be configured in the PLC. Failure to do so may cause unpredictable operation due to the fact that the PLC uses different methods of addressing discrete modules from word modules.

I/O MODULE DEFINITION FOR CHANNEL . . . 1 BASE 00

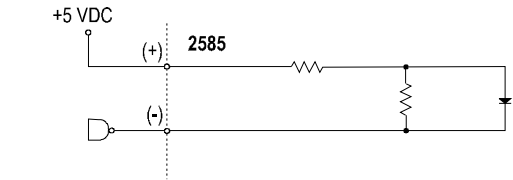
SLOT	I/O ADDRESS	X	Y	WX	WY	SPECIAL FUNCTION
01	0001	00	00	08	00	NO
02	0000	00	00	00	00	NO
15	0000	00	00	00	00	NO
16	0000	00	00	00	00	NO

I/O MODULE DEFINITION FOR CHANNEL . . . 1 BASE 00

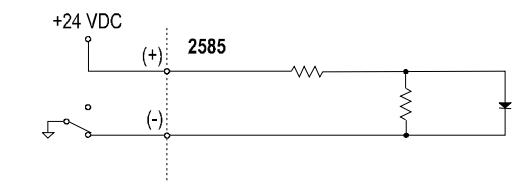
SLOT	I/O ADDRESS	X	Y	WX	WY	SPECIAL FUNCTION
01	0001	16	00	00	00	NO
02	0000	00	00	00	00	NO
15	0000	00	00	00	00	NO
16	0000	00	00	00	00	NO



TYPICAL CONNECTION FOR HIGHER LEVEL VOLTAGE (24 VDC)

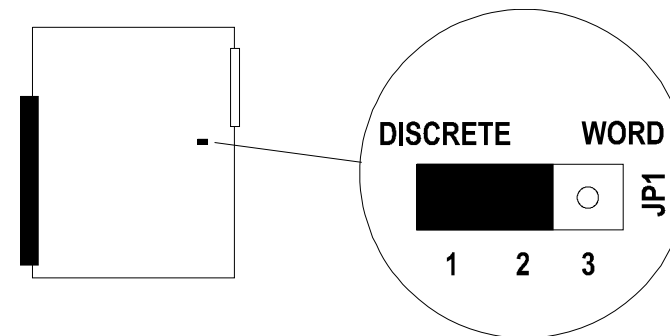


RECOMMENDED TTL LEVEL INPUT CONNECTION



TYPICAL 24 VDC SWITCH CONNECTION

Typical Applications



NOTE: UNIT SHIPPED WITH JUMPER 1 CONFIGURED FOR DISCRETE MODE AS SHOWN. FOR WORD MODE MOVE JUMPER TO PINS 2 AND 3.