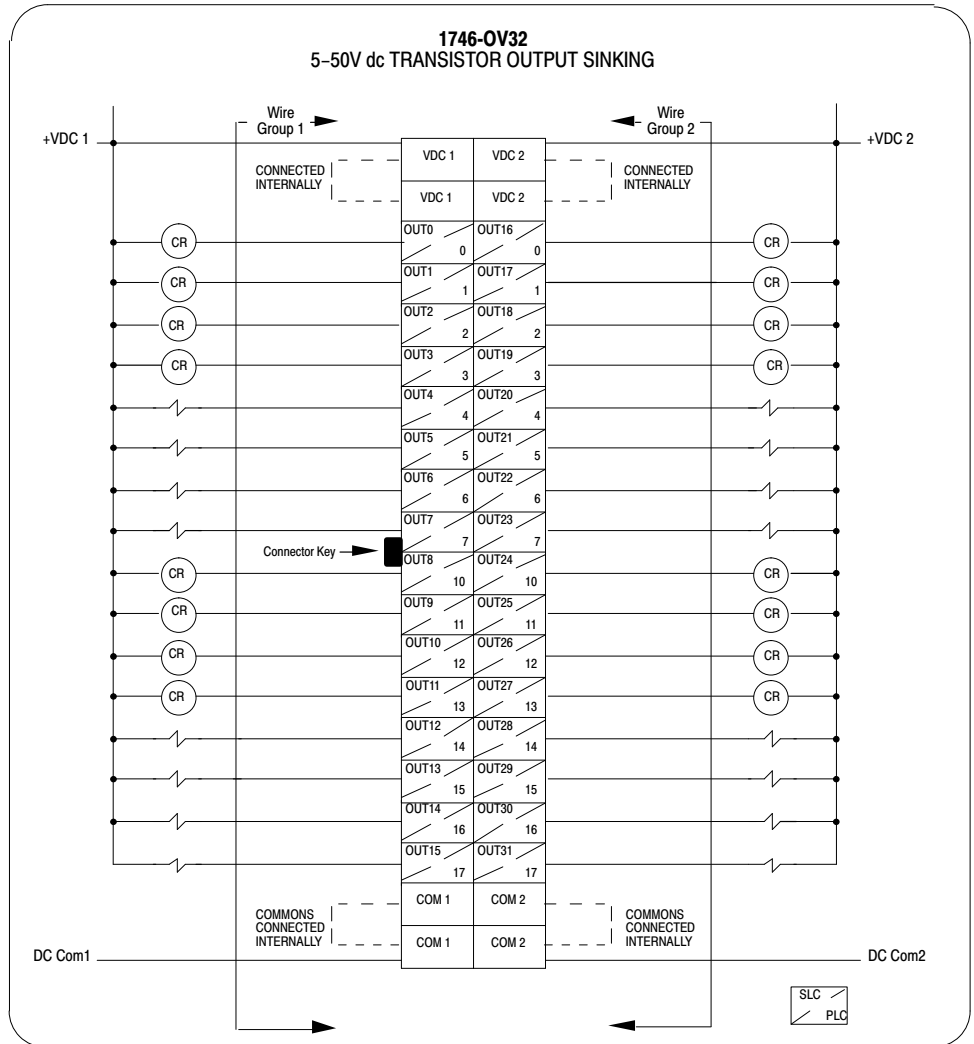


Wiring Diagram



**Important:** Each group has separate VDC and DC COM connections.

The 1746 32-point modules include a keyed 40-pin female connector and crimp-type pins for connection to I/O wiring. In addition, 1492 prewired cables and interface modules can be used for connecting external I/O. (See pages 6 and 46.)

### Sinking TTL Output Module (1746-OG16)

Voltage Category	Number of Outputs	Points per Common	Catalog Number	Backplane Current Draw		Signal Delay (max.)	Off-State Leakage (max.)	Load Current (min.)	Continuous Current per Point (max.)	Continuous Current per Module (max.)	On-State Voltage Drop (max.)	Surge Current per Point (max.)
				5V	24V							
①② 5V dc TTL	16	16	1746-OG16 (RTB)	0.180A	0.0A	on = 0.25 ms off = 0.5 ms	0.1 mA	0.15 mA	24 mA	NA	NA	NA

① TTL outputs are inverted (0–0.4V dc = low voltage = True = On). Use a NOT instruction in your ladder program to convert to traditional True = High logic.

② User supplied voltage: 4.5–5.5V dc, 50 mV p-p ripple (max.).

NA = not applicable.

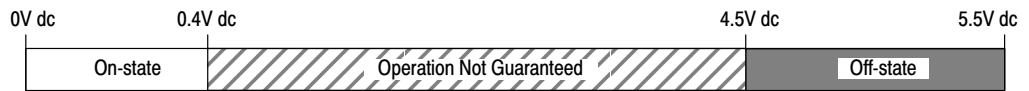
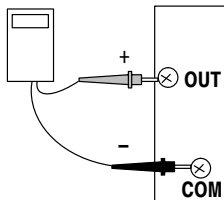
RTB = Removable Terminal Block.

#### Operating Voltage Range



User supplied voltage: 4.5 to 5.5 V dc, 50 mV p-p ripple maximum. User supplied current: 495 mA maximum at 5 V dc.

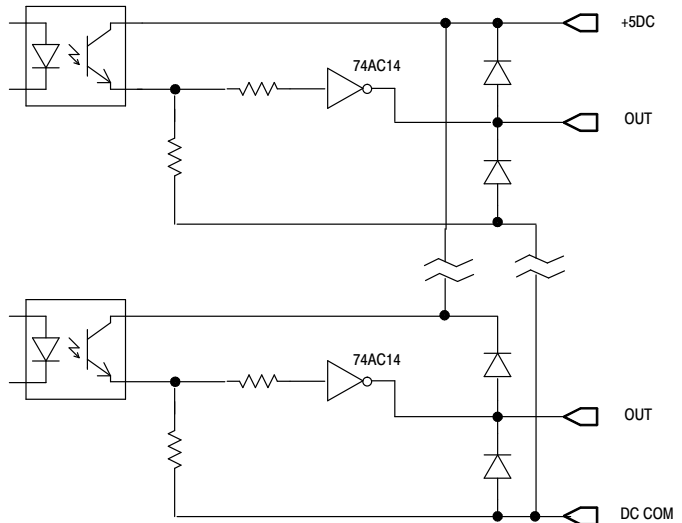
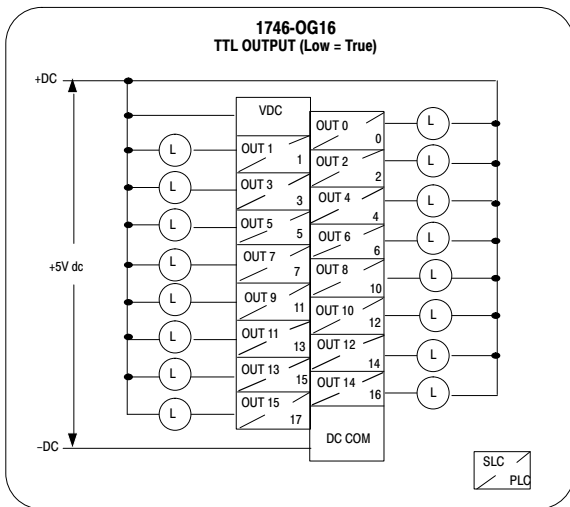
#### On/Off-State Voltage Range



TTL inputs are inverted (0–0.4 V dc = low voltage = True = On).

(Measure voltage from common terminal to output terminal.)

#### Wiring and Circuit Diagrams



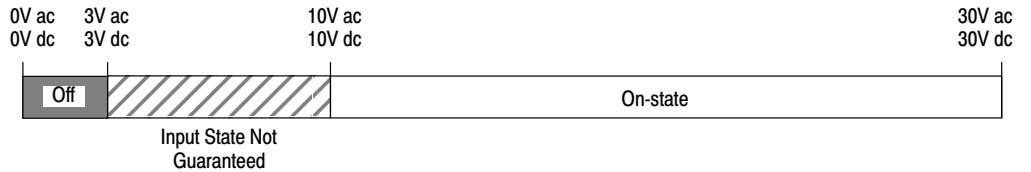
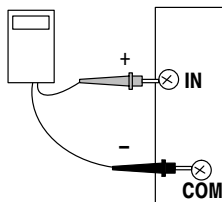
### AC/DC Input Module (1746-IN16)

Voltage Category ①	Operating Voltage	Number of Inputs	Points per Common	Catalog Number	Backplane Current Draw		Signal Delay (max.)	Off-State Voltage (max.)	Off-State Current (max.)	Nominal Input Current	Inrush Current (max.)
					5V	24V					
24V ac/dc	10-30 dc sink 10-30 ac	16	16	1746-IN16 (RTB)	0.085A	0.0A	on = 15 ms dc off = 15 ms dc  on = 25 ms dc off = 25 ms dc	3V dc 3V ac	1 mA ac & dc	8 mA at 24V ac & dc	0.02A (ac only)

① AC frequency = 47 to 63 Hz

RTB = Removable Terminal Block.

#### On/Off-State Voltage Range



(Measure voltage from common terminal to input terminal.)

#### Wiring and Circuit Diagrams

