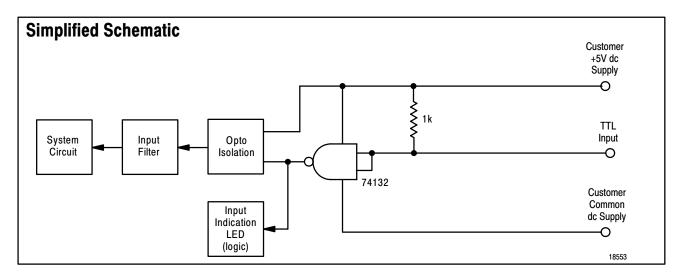
TTL Input Module (Cat. No. 1771-IG)



Application Notes

Device Compatibility. You can use any TTL device that meets the output logic level specification of -0.2V dc to +0.8V dc (low), and 2.0V dc to 5.25V dc (high).

This module contains input filtering to limit the effects of voltage transients caused by contact bounce and/or radiated electrical noise. The delay due to filtering is nominally 1ms.

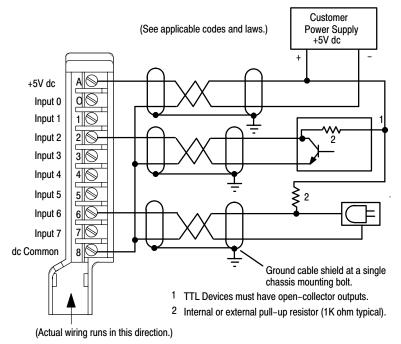
For maximum noise immunity, the output of the TTL device that is driving the input should have a pull-up resistor of 1k ohm (typical). If you add a pull-up resistor, be sure the TTL device maintains the low state requirement of -0.2 V dc to +0.8V dc with the increased load.

Connection to Output Modules. Input terminals of the TTL Input Module may be directly driven by outputs of the TTL Output Module (Cat. No. 1771-OG).

Status Indicators. The front panel contains eight indicator lights. Each indicator lights when its corresponding input terminal senses TTL voltages in the true state. Indicators may appear dim during rapid pulsing of input signals.

Module Application. You can select "High = True" or "Low = True" logic operation using logic switches located on the module.

Connection Diagram



10441-l

TTL Input Module (Cat. No. 1771-IG)

| Inputs per Module | 8 |
|--|--|
| Module Location | Series A or B 1771 I/O chassis |
| Input Voltage Range HIGH = TRUE LOW = TRUE | ON; 2.4 to 5.25V dc OFF: -0.2 to +0.8V dc ON: -0.2 to +0.8V dc |
| Customer Current Sink Requirements | OFF: 2.4 to 5.25V dc 7mA (source per input) 0.8mA (sink per input) |
| Customer Supply Voltage | 5V dc (±0.25V) 50mV peak-to-peak ripple max. |
| Customer Supply Current per Module | 500mA max. |
| Input Signal Delay | Less than 1ms |
| Power Dissipation | 3.3 Watts (max.), 0.6 Watts (min.) |
| Thermal Dissipation | 11.3 BTU/hr (max.), 2.0 BTU/hr (min.) |
| Backplane Current | 122mA max. |
| Isolation Voltage | 1500V ac rms |
| Environmental Conditions Operational Temperature Storage Temperature Relative Humidity Conductors Wire Size | 0° to 60°C (32° to 140°F) -40° to 85°C (-40° to 185°F) 5 to 95% (without condensation) 14 gauge (2mm²) stranded maximum |
| Cable Category | 3/64 inch (1.2mm) insulation maximum Shielded (Belden 8761) 2 ¹ |
| Keying | Between 4 and 6 Between 34 and 36 |
| Field Wiring Arm | Catalog Number 1771-WC |
| Wiring Arm Screw Torque | 7-9 inch-pounds |
| Agency Certification (when product or packaging is marked) | CSA certified CSA Class I, Division 2 Groups A, B, C, D certified UL listed CE marked for all applicable directives |
| Installation Instructions | 1771-2.9 |

Status Indicators

