

6.9 Input Module, 125Vdc Pos/Neg, 16-Point IC694MDL635

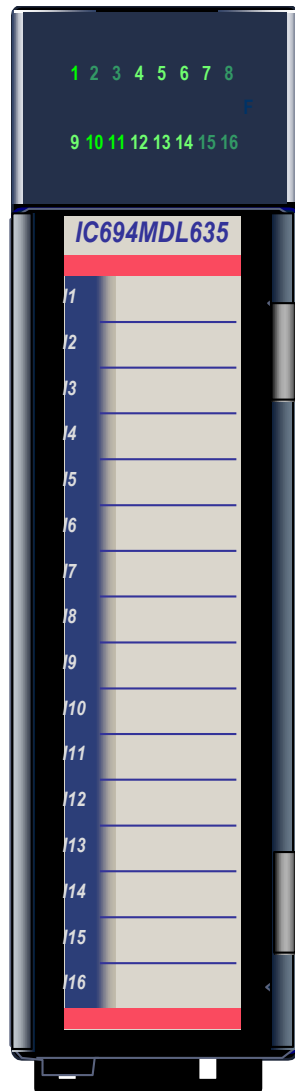


Figure 145: IC694MDL635

The *125Vdc Positive/Negative Logic Input* module, IC694MDL635, provides sixteen input points in one group with a common power input terminal. This input module can be wired for either positive logic or negative logic. Input characteristics are compatible with a wide range of input devices, such as pushbuttons, limit switches, and electronic proximity switches. Current into an input point results in a logic 1 in the input status table (%I).

Power to operate field devices must be supplied by the user.

Sixteen green LEDs indicate the ON/OFF status of points 1 through 16. The red bands on the label show that MDL635 is a high-voltage module.

This module can be installed in any I/O slot in an RX3i system.

Module supports insertion into and removal from an RX3i Universal Backplane which is under power. Refer to *Hot Insertion and Removal*, Section 2.6.4.1.

6.9.1 Specifications: MDL635

Rated Voltage	125 Vdc
Input Voltage Range	0 to +150 Vdc
Inputs per Module	16 (one group with a single common). See Thermal Derating Figure 146.
Isolation: Field to Backplane (optical) and to frame ground	250 Vac continuous; 1500 Vac for one minute
Input Current	1.97 mA (typical) at rated voltage
Input Characteristics	
On-state Voltage	90 to 150 Vdc
Off-state Voltage	0 to +30 Vdc
On-state Current	1.41 mA minimum
Off-state Current	0.46 mA maximum
On response Time	8 ms typical
Off response Time	8 ms typical
Power Consumption: 5Vdc	80 mA (all inputs on) from 5 Vdc bus on backplane
Power Consumption: 125Vdc	31.5 mA from user supplied power (all inputs ON at 125 Vdc)

6.9.1.1 Thermal Derating: MDL635

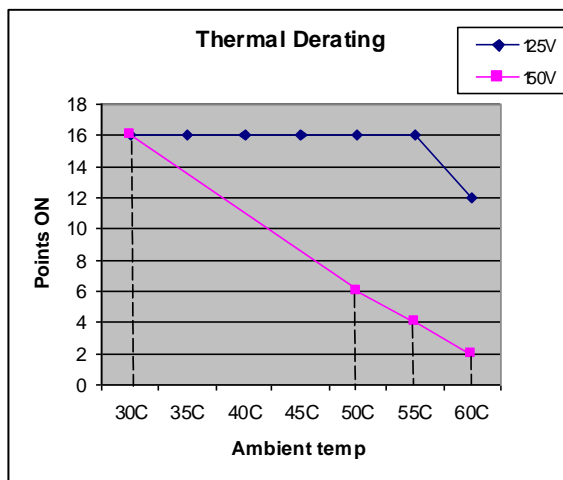


Figure 146: Thermal Derating MDL635