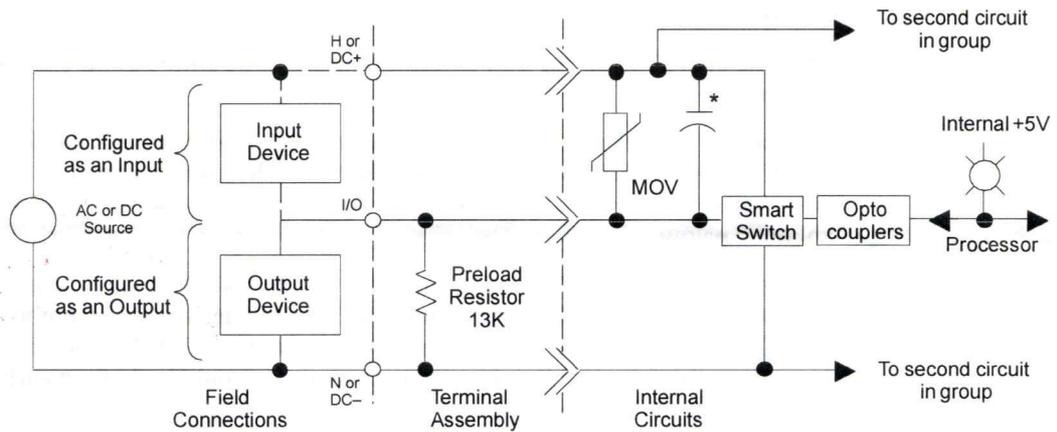# Block Operation

An Isolated block has four isolated groups of two I/O circuits, each rated to operate at a nominal 115VAC or 125VDC.

*. μF 2 for Block IC660
.1μF for Block IC660BBS102 and 103

Circuit LEDs

Each circuit has its own LED. If the circuit is configured as an input, the LED indicates the presence of threshold voltage at the input terminal. If the circuit is configured as an output, the LED indicates the state commanded by the CPU.

Inputs and Outputs

An Isolated Block can be configured as an inputs–only, outputs–only, or combination block. For a new block, the default is inputs–only. Regardless, the block always broadcasts one byte of data each bus scan, and accepts one byte of data each bus scan.

If the block is configured as a combination block, circuits can be any mix of inputs and/or outputs. The block will use 8 input references and 8 output references. The actual state of each output will be returned to the CPU in the corresponding input reference location. The CPU can monitor the feedback state to verify (after an appropriate delay) that the output switching device has operated properly and that the load has the proper voltage and current applied.

If the block is configured as an inputs–only block, all circuits must be regular inputs or tristate inputs. The block will use 8 input references and NO output references.

If the block is configured as an outputs–only block, all circuits must be be outputs; no feedback analysis will be performed. The block will use 8 output references and NO input references.

Appendix B shows reference usage for a Series 90, Series Six, or Series Five PLC.