

HISTATE Functions

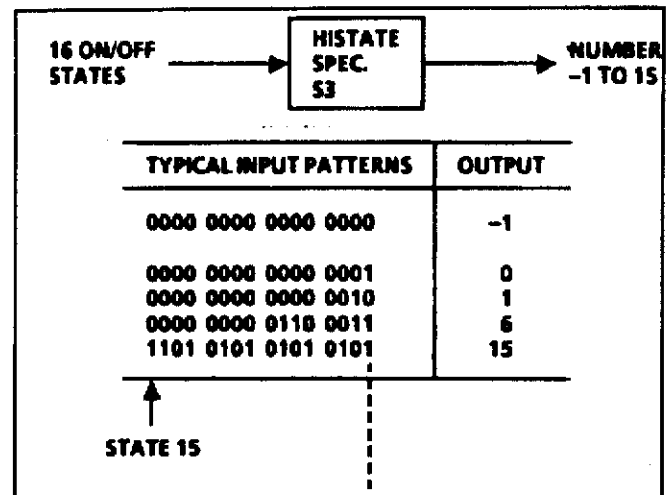
HISTATE S3

DESCRIPTION

The HISTATE function generates a numeric value from a pattern of 16 ON/OFF states. It finds the highest numbered state which is ON and outputs the number of that state.

FEATURES

- Finds highest priority signal out of a group presented in priority order
- Can be used to obtain a number representing which step has been reached in a sequence
- Detects when all states are OFF



SPECIFICATION

Control language:-

HISTATE
 X-----SPEC-----Q
 S3

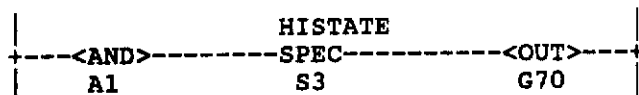
Table 1 Program rung data

Sym	Location	Use	Range
X	Rung Input	16 ON/OFF states	Any combination
Q	Rung Output	Number of highest ON state	0 to 15 or -1 if none ON

APPLICATION NOTES

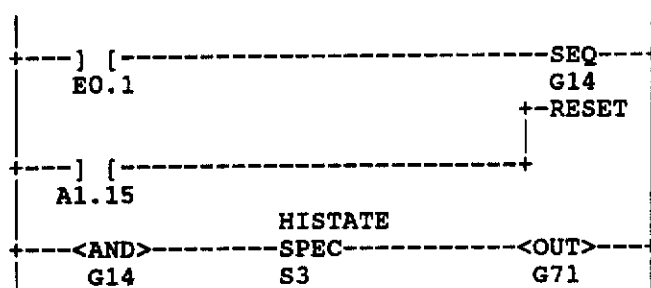
1. Priority Example

The user connects 16 alarms to inputs A1.0 (lowest priority) to A1.15 (highest priority). This rung finds the highest priority of any alarms present e.g. for an operator numeric display, or to choose a message for printout.



2. Sequence Example

This rung stores the step number of sequencer G14 in location G71 e.g. for operator display.



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