I/A SERIES FBM10 AND FBM15

Product Data Sheet

FBM10/15

120 V AC discrete I/O module family

INPUT CAPACITY	OUTPUT CAPACITY	INPUT ON VOLTAGE	INPUT OFF VOLTAGE
8 independent channels per module	**8 independent channels per module**	**79-132 V AC**	**0-20 V AC**

Foxboro FBM10/15 identifies the I/A Series FBM10 main and FBM15 expansion discrete I/O module family. Each module provides eight AC voltage-monitor inputs and eight AC output switches for nominal 120 V AC field circuits.

01 TECHNICAL DATA

Input capacity	8 independent channels per module
Output capacity	8 independent channels per module
Input ON voltage	79-132 V AC
Input OFF voltage	0-20 V AC
Typical input current	2.2 mA at 20-132 V AC
Input filter	Selectable 4, 8, 16 or 32 ms
Output nominal voltage	120 V AC nominal, 79-132 V AC range; 50/60 Hz
Output current limits	2 A per channel; 12 A per module
Output OFF-state leakage	3 mA maximum
Output ON-state drop	0.4 V at 1 A

Foxboro I/A Series FBM10 and FBM15 Product Specification PSS 21H-2C9 B4; main and expansion family data.

02 ADDITIONAL PRODUCT DATA

Minimum holding current	None required
Module power input	26-42 V DC, redundant
Electrical isolation	1250 V AC for 1 minute, channel-to-earth and channel-to-channel
Operating temperature	0-60 deg C
Output inrush current	24 A peak for 10 ms; 12 A RMS for 20 ms; 3.5 A RMS for 1 s

03 PRODUCT FUNCTION

The FBM10 main module communicates through the redundant Fieldbus, while FBM15 operates as its expansion module. The family uses a redundant 26-42 V DC module supply, selectable input filtering and isolated field channels. The slash designation describes the related main/expansion family and does not by itself specify a supplied pair.

04 SYSTEM COMPATIBILITY

Provide the documented 26-42 V DC redundant module supply separately from the nominal 120 V AC field circuits. Inputs are ON at 79-132 V AC and OFF at 0-20 V AC. Select 4, 8, 16 or 32 ms input filtering to suit the validated configuration.

05 REFERENCE

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AMIKON PRODUCT SUPPORT

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