MTL8000

Product Data Sheet

8121-DI-DC-01

16-channel dry-contact input module

INPUT CHANNELS	FIELD-CONTACT TYPE	OFF-STATE THRESHOLD	ON-STATE THRESHOLD
16	**Dry contacts; module-powered wetting**	**Less than 0.3 mA**	**Greater than 1.2 mA**

MTL 8121-DI-DC-01 is listed here using the verified 8121-DI-DC family specifications for a 16-channel dry-contact input module. The module provides contact-wetting current and transfers the discrete states through the MTL8000 Railbus arrangement.

01 TECHNICAL DATA

Input channels	16
Field-contact type	Dry contacts; module-powered wetting
OFF-state threshold	Less than 0.3 mA
ON-state threshold	Greater than 1.2 mA
Wetting current	2.8 mA typical
Minimum pulse width	5 ms
Maximum counting frequency	100 Hz without debounce
Channel-to-Railbus isolation	250 V AC
Input filtering	Fast, slow or user-defined 0-512 ms in 2 ms steps
Input latching	Configurable enable and high/low polarity

02 ADDITIONAL PRODUCT DATA

Pulse counting	Configurable per channel
Input latency	5 ms maximum
Railbus consumption	90 mA typical; 135 mA maximum at 12 V
Bussed field supply	18-30 V DC; 60 mA
Mechanical key code	E1

03 PRODUCT FUNCTION

The family specification includes configurable filtering, input latching and pulse counting, with a 5 ms maximum input latency. It uses an 18-30 V DC bussed field supply and the 8617-FT-NI field terminal. The complete -01 identifier is retained without assigning an undocumented suffix meaning.

04 SYSTEM COMPATIBILITY

Provide the 18-30 V DC bussed field supply and include the 60 mA field requirement in the power budget. The separate Railbus requirement is 90 mA typical and 135 mA maximum at 12 V. The stated 250 V AC isolation is channel-to-Railbus, not individual channel-to-channel isolation.

05 REFERENCE

MTL8000 8121-DI-DC Digital Input Module Datasheet; common family characteristics, complete -01 identity retained.

AMIKON PRODUCT SUPPORT

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