HIQUAD H41Q/H51Q

Product Data Sheet

F3237

Safety-related NAMUR input module

INPUT CHANNELS	SIGNAL INTERFACE	SAFETY REQUIREMENT CLASS	SWITCHING TIME
8	**NAMUR, DIN 19234; resistor-wired sensors**	**AK 1-6**	**Approximately 10 ms**

HIMA F3237 is an eight-channel safety-related input module for safety proximity switches, NAMUR devices to DIN 19234 and resistor-wired sensors. It supervises field lines for open and short circuits and automatically tests the input circuits during operation. The original module data states requirement classes AK 1 through AK 6.

01 TECHNICAL DATA

Input channels	8
Signal interface	NAMUR, DIN 19234; resistor-wired sensors
Safety requirement class	AK 1-6
Switching time	Approximately 10 ms
Logic 0 current	0.35-1.2 mA
Logic 1 current	2.1-6.0 mA
Wire-break threshold	0.28 mA or less
Short-circuit threshold	6.5 mA or greater
Maximum line impedance	50 ohm
Maximum line length	1000 m with 0.5 mm2 conductor

HIMA F 3237 module data, issue 9912, pages 1-3.

02 ADDITIONAL PRODUCT DATA

Sensor supply	8.2 V
Shunt resistor	681 ohm; 1%; 0.25 W
5 V operating current	90 mA
24 V operating current	170 mA
Rack space	4 TE

03 PRODUCT FUNCTION

The module uses an 8.2 V sensor supply and distinguishes logic states by their input-current bands. A wire break is identified at 0.28 mA or less and a short circuit at 6.5 mA or more. The specified switching time is approximately 10 ms, with a maximum 50 ohm line impedance and a 1000 m line length for the stated 0.5 mm2 conductor.

04 SYSTEM COMPATIBILITY

Follow the F3237 front-cable and channel connection drawing for channels 1-8 and the supply rails. Keep line impedance within 50 ohm and the documented 1000 m limit for 0.5 mm2 conductors; the cable and connector arrangement must suit the installed safety design.

05 REFERENCE

HIMA F 3237 module data, issue 9912, pages 1-3.

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