

F3237

8-fold safety-related proximity-switch input module

The F 3237 connects eight safety-related proximity-switch or resistor-wired sensor circuits. Its HIMA sheet specifies line-break and short-circuit monitoring, automatic tests and distinct input-current thresholds.

8 INPUTS

Eight proximity-switch or resistor-wired sensor circuits.

LINE CHECK

Line break and short circuit are monitored.

TESTING

Automatic switching, crosstalk and input-filter tests.

SUPPLY

8.2 V sensor supply; 5 V and 24 V module draws are listed.

INTERFACE	HIMA RECORD
Safety basis	HIMA lists requirement class AK 1-6 for the safety-related input module.
Automatic tests	Switch-on/off ability, walking-0 crosstalk, filters, module function and sensor-line faults.
LED limitation	The original sheet states LED functions are not tested automatically.

EXACT-MODEL BOUNDARY

Do not substitute a generic eight-input card; verify the NAMUR current bands, Z 7108 plug and sensor-line fault response.

MANUFACTURER BASIS

HIMA Paul Hildebrandt GmbH + Co KG, F 3237 (9912) Overview Data Sheets, pp. 1-3

Factual operating values

PARAMETER	HIMA DATA
Input channels	8
0-signal current	0.35-1.2 mA
1-signal current	2.1-6.0 mA
Wire-break threshold	At or below 0.28 mA
Short-circuit threshold	At or above 6.5 mA
Line impedance	Maximum 50 ohm per DIN 19234
Line length	Maximum 1000 m with 0.5 sq. mm conductor
Sensor supply voltage	8.2 V
Switching time	Approximately 10 ms

Input shunt

R17-R24: 681 ohm, 1%, 0.25 W;
HIMA part 00 0751681.

Cable plug

Front plug lead marking Z 7108 /
3237 / C...

Channel map

Eight channels use d2-d32 pairs;
verify the original contact table.

INTERPRETATION

These are manufacturer-stated module values, not a substitute for the installed safety design, cable-plug variant or cabinet acceptance record.

DOCUMENT CONTROL

HIMA Paul Hildebrandt GmbH + Co KG, F 3237 (9912) Overview Data Sheets, pp. 1-3