

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.

Documented application contexts

NAMUR sensors

Read proximity-switch circuits described by DIN 19234.

Resistor-wired sensors

Connect an approved resistor-wired field circuit.

Line diagnostics

Detect wire break and short circuit using HIMA thresholds.

Redundant sensing

Apply the original HIMA redundant connection diagram when engineered.

Engineering snapshot

TOPIC	VERIFIED INTERPRETATION
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.
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.
Redundancy	Original sheet includes redundant connection diagrams for proximity switches.
Special sensor	Some non-DIN switches require HIMA's documented 47 kilohm parallel resistor check.

CONTROLLED USE

Do not substitute a generic eight-input card; verify the NAMUR current bands, Z 7108 plug and sensor-line fault response. Source: HIMA Paul Hildebrandt GmbH + Co KG, F 3237 (9912) Overview Data Sheets, pp. 1-3