

F3330

8-fold safety-related digital output module

The F 3330 output module switches eight documented field loads and includes automatic output testing, integrated safety shutdown and safe isolation. The original sheet distinguishes resistive, inductive and lamp-load limits.

8 OUTPUTS

Eight controlled field output channels.

LOAD

Resistive or inductive load up to 500 mA / 12 W.

LAMP

Direct lamp connection up to 4 W.

TESTING

Automatic readback and walking-bit testing during operation.

Documented application contexts

Safety output switching

Apply documented safety-related control outputs in the approved HIMA system.

Resistive loads

Switch field loads within the 500 mA / 12 W limit.

Inductive loads

Use the required protective diode arrangement.

Lamp indication

Drive permitted lamp circuits within the direct 4 W limit.

Engineering snapshot

TOPIC	VERIFIED INTERPRETATION
Safety function	Integrated safety shutdown; safe isolation; no output signal if L- supply breaks.
Automatic tests	Output signal readback and switching/crosstalk walking-bit test.
Short-circuit threshold	Operating point 0.75-1.5 A per original sheet.
Inductive load	Use the diode arrangement specified on the original HIMA diagram.
Front plug	Z 7138 / 3330 / C.. or documented P2 cable variant.
Channel contacts	Eight output channels mapped to b2-b16; confirm variant-specific plug.
Rack planning	Manufacturer planning hint: no more than 10 nominally loaded output modules per I/O rack.
Supply draw	5 V DC: 110 mA; 24 V DC: 180 mA in addition to load.

CONTROLLED USE

Do not treat similar F333x cards as interchangeable; verify the exact output plug, load and installed safety logic. Source: HIMA Paul Hildebrandt GmbH + Co KG, F 3330 (9912) Overview Data Sheets, pp. 1-2