

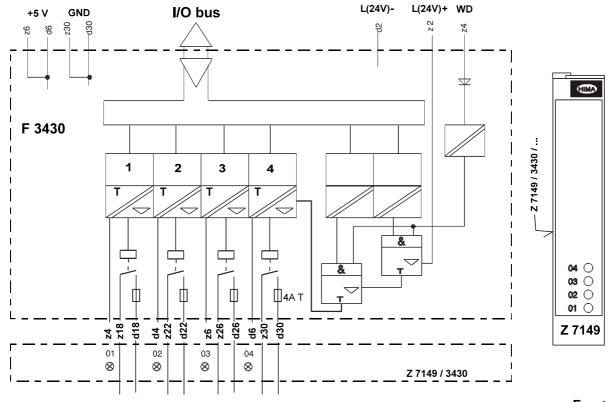
F 3430





## F 3430: 4-channel relay module

**safety-related**, applicable up to SIL 3 according to IEC 61508 Switching voltage  $\geq$  5 V,  $\leq$  250 V AC /  $\leq$  110 V DC, with integrated safety shutdown, with safety isolation, with 3 subsequent relays (in diversity), solid state output (open collector) for LED display in the cable plug



Front Block diagram cable plug

Relay output NO contact, dust-tight Contact material Silver alloy, gold-flashed

Switching time approx. 8 ms Reset time approx. 6 ms approx. 1 ms Switching current  $10 \text{ mA} \le \text{I} \le 4 \text{ A}$  Life, mech.  $\ge 30 \times 10^6 \text{ cycles}$ 

Life, elec.  $\geq 2.5 \times 10^5$  cycles with full resistive load

and  $\leq$  0.1 cycles per second

Switching capacity AC up to 250 V AC max. 500 VA,  $\cos \phi > 0.5$ 

Switching capacity DC up to 30 V DC max. 120 W (non inductive) up to 70 V DC max. 50 W up to 110 V DC max. 30 W

Space requirement 4 SU

Operating Data 5 V DC / < 100 mA 24 V DC / < 120 mA

Channel	Connection	Colour	
1	z18	WH	
	d18	BN	
2	z22	GN	Cable
	d22	YE	LiYY 8 x 1.5 mm <sup>2</sup>
3	z26	GY	
	d26	PK	
4	z30	BU	
	d30	RD	

Lead marking of the cable plug Z 7149 / 3430 / C../P2

The module has a safe isolation between the input and the output contact, according EN 50178 (VDE 0160). The clearance in air and the creepage distance are dimensioned for overvoltage class III up to 300 V.

The module is equipped with relays in diversity.

The relay amplifier is suitable for the switching of safety-related circuits. Thus the amplifier can be used for safety shutdowns, e. g. to cut off the entire fuel supply for combustion plants.

## Restrictions

- For the application it must be ensured that the module is replaced after reaching the maximum quantity of switching cycles (e. g. 300.000 switching cycles at a rated operation 30 V DC / 4 A).
- For SIL 3 plants (according to IEC 61508) function checks have to be made by the manufacturer within a period of three years, for SIL 2 plants within a period of six years.
- The replacement of components must be made only by the manufacturer regarding the valid standards and TÜV restrictions.