



## H 7014: Electronic fuses

for the safety-related outputs of the F 3330 module  
resistive or inductive loads up to 500 mA (12 W)

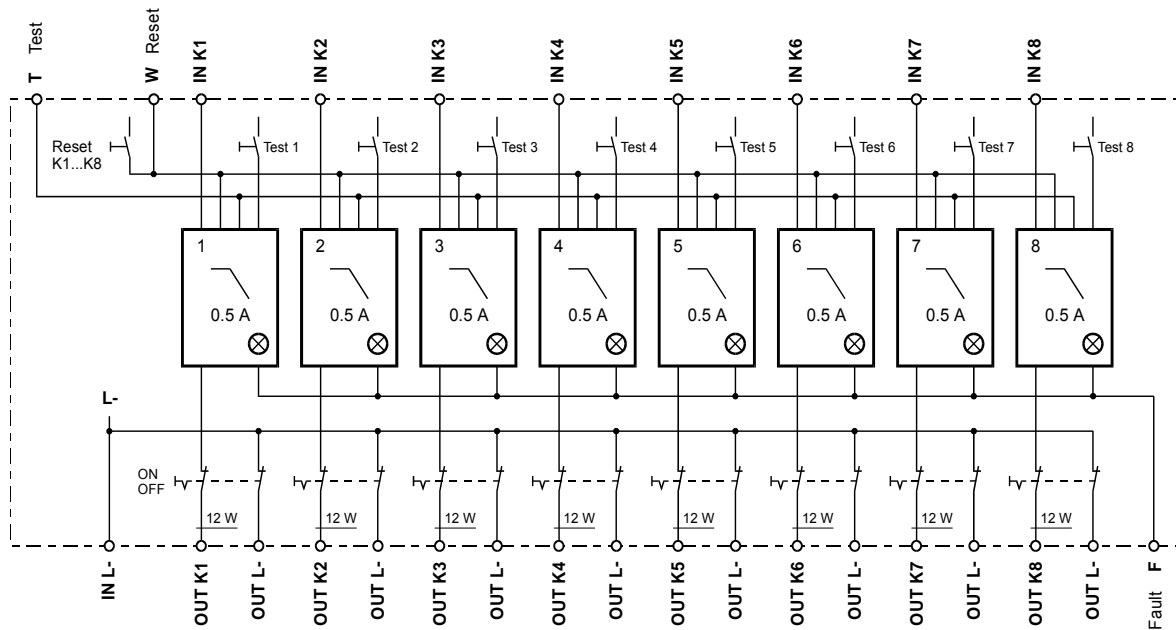


Figure 1: Block diagram

The module is tested according to IEC 61508-2 (SIL 3), IEC 61131-2, EN 298, DIN VDE 0116, EN 50156, EN 50178 (and DIN V 19250).

The electronic fuses are dimensioned to be connected to the outputs (also redundant outputs) of the F 3330 module.

All input signals for the H 7014 must be generated in SELV systems.  
The output loads can be disconnected separately with slide switches.

### Inputs

Current consumption  
Load rating of the output F  
Operating point  
Switching time  
Switching frequency  
Ambient conditions  
Degree of protection

voltage range matched to the outputs  
of the F 3330 module

≤ 10 mA per channel  
1 input F 3221 or F 3236  
approx. 550 mA  
< 200 μs  
≤ 1 Hz  
0...+60 °C  
IP 20 according to IEC/EN 60529 (VDE 0470 part 1)

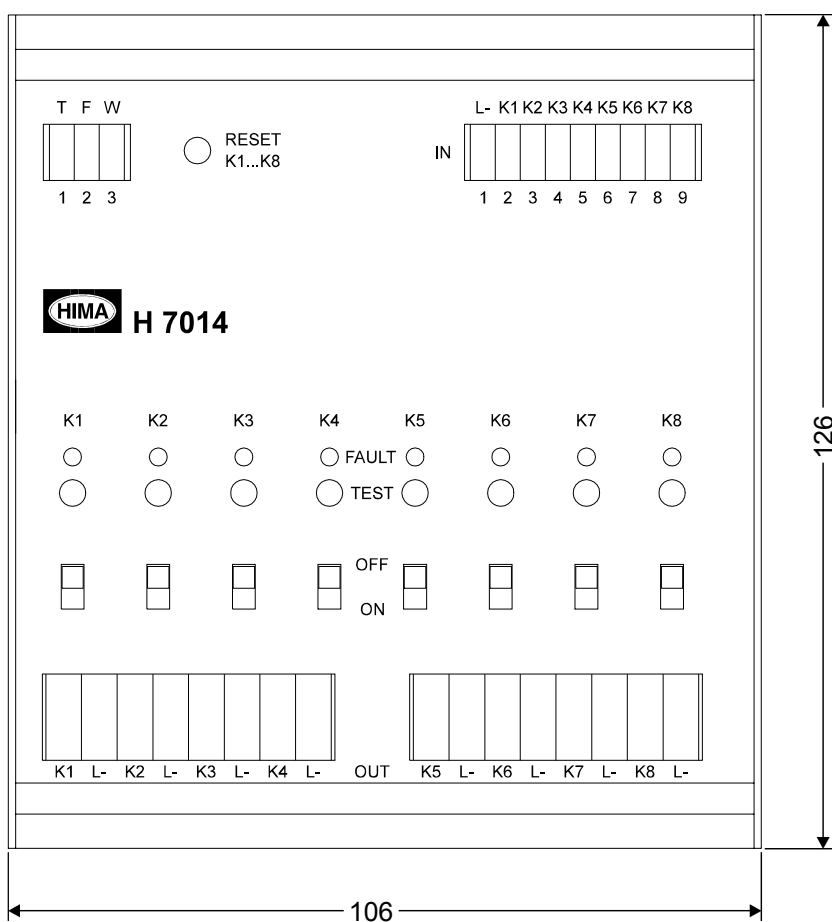
The channels are individually checked for short-circuit or overload current and switched off if necessary. Resetting the fuses is made via a common reset input (W) for 24 VDC or via the internal reset pushbutton.

The fuses can be tripped together via an input (T) for a 24 VDC signal or individually with own test pushbuttons. The fuse trip is indicated with LEDs and signalized via a common output (F). If this output is not used, it must be terminated against L- with a resistor of 10 k $\Omega$  (0.25 W).

### Connections and cross sections

T, F, W	1 female plug-in connection 1.5 mm <sup>2</sup> , 3-pole
IN	1 female plug-in connection 1.5 mm <sup>2</sup> , 9-pole
OUT	Screw terminals for loads 2.5 mm <sup>2</sup> , 2 x 8-pole

### Mechanical design and dimensions



**Figure 2: Mechanical design and dimensions**

Depth	57 mm (with terminals)
Mounting	on DIN rail 35 mm
Mounting position	horizontal or vertical
Assembling distance	not required

### Applications

Connecting the inputs of the H 7014 in parallel is not permitted:

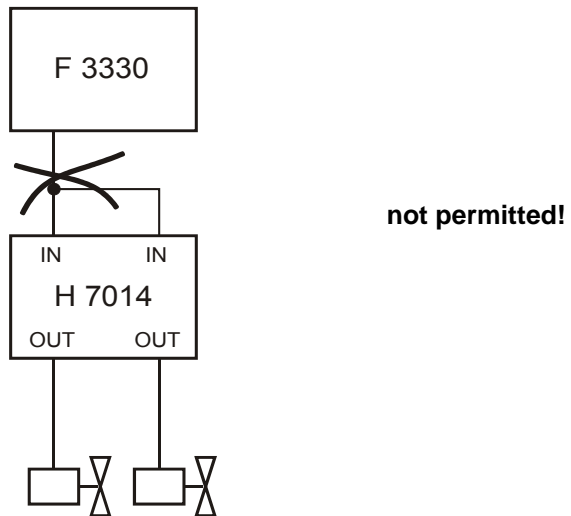


Figure 3: Connecting the inputs of the H 7014 in parallel

The outputs of the F 3330 and the H 7014 can be used in redundancy:

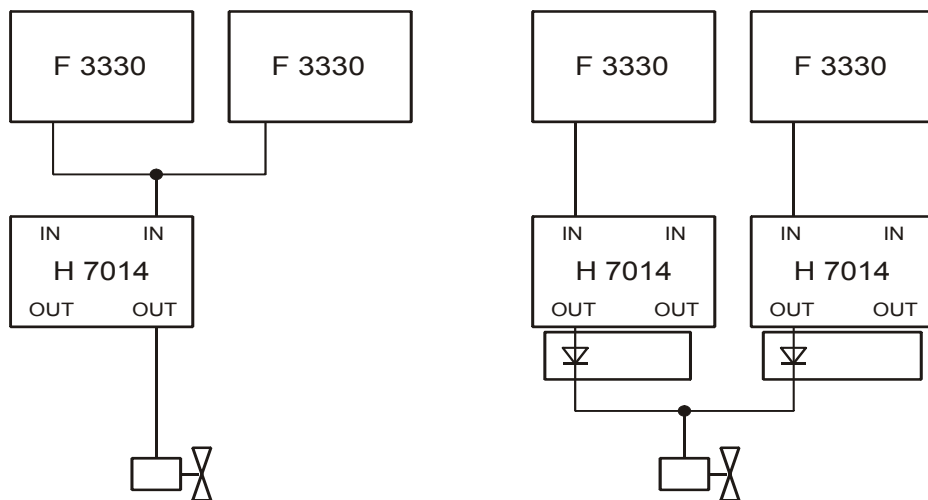


Figure 4: Connecting the outputs of the F 3330 and H 7014 in redundancy

For the use of *two* electronic fuses H 7014 their outputs must be decoupled by means of external diodes.

