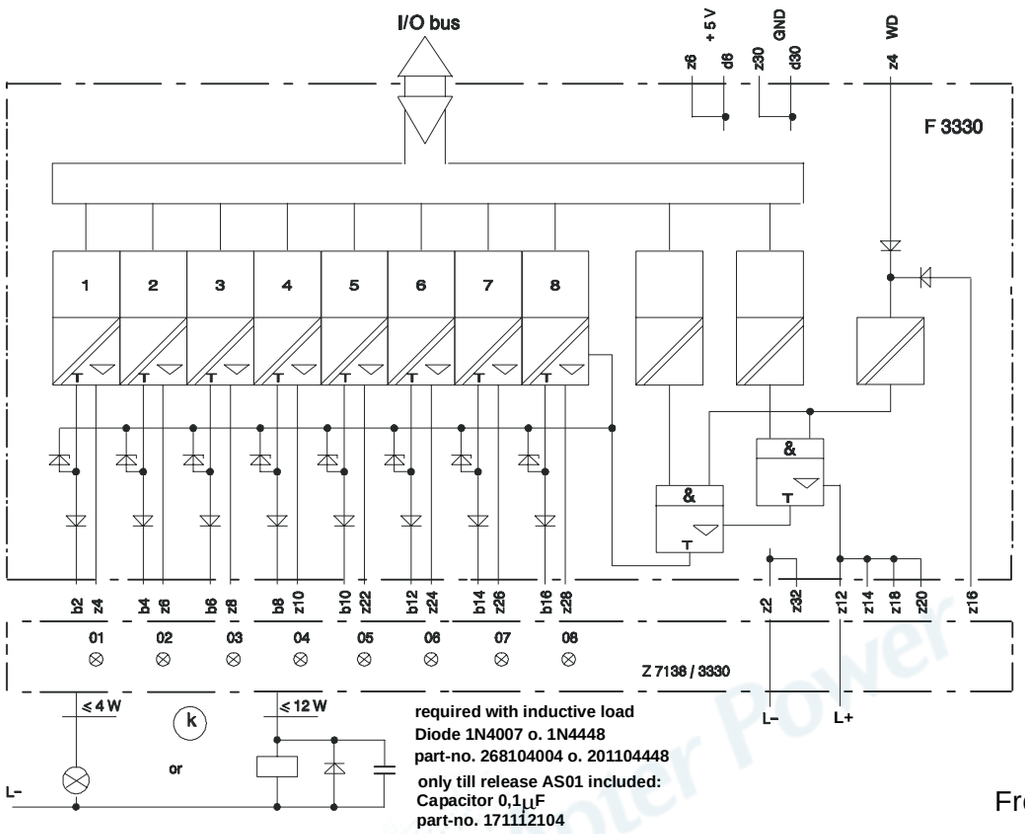
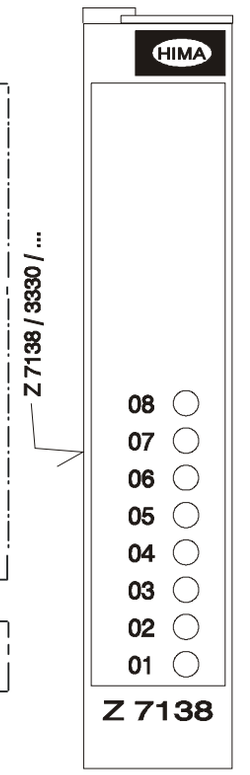
F 3330

F 3330: 8 fold output module, safety related

resistive load or inductive load up to 500 mA (12 W),
lamp connection up to 4 W,
with integrated safety shutdown, with safe isolation,
no output signal with break of the L- supply
requirement class AK 1 ... 6



Block diagram



Front cable plug

The module is automatically tested during operation. The main test routines are:

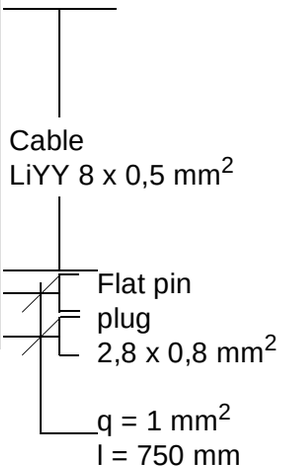
– Reading back of the output signals. The operating point of the 0 signal read back is ≤ 6.5 V. Up to this value the level of the 0 signal may arise in case of a fault and this will not be detected
– Switching capability of test signal and cross-talking (walking-bit test).

Outputs	500 mA, (k) short circuit proof
Internal voltage drop	max. 2 V at 500 mA load
Admissible line resistance (in + out)	max. 11 Ohm
Undervoltage tripping	at ≤ 16 V
Operating point for short circuit current	0.75 ... 1.5 A
Outp. leakage current	max. 350 µA
Output voltage if output is reset	max. 1,5 V
Duration of the test signal	max. 200 µs
Space requirement	4 TE
Operating data	5 V DC: 110 mA 24 V DC: 180 mA in add. load

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HIMA Paul Hildebrandt GmbH + Co KG, Postfach 1261, 68777 Brühl

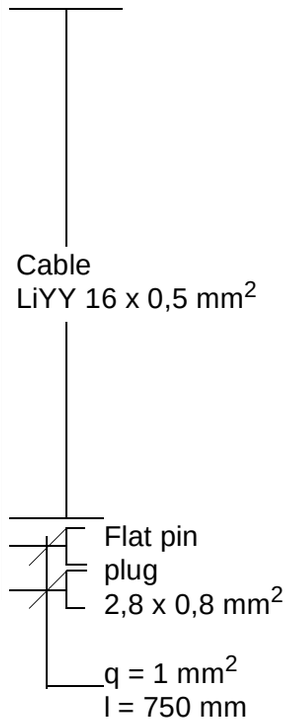
F 3330 (9912)

Channel	Connection	Colour
1	b2	ws
2	b4	br
3	b6	gn
4	b8	ge
5	b10	gr
6	b12	rs
7	b14	bl
8	b16	rt
L–	z2	sw
L+	z12	rt

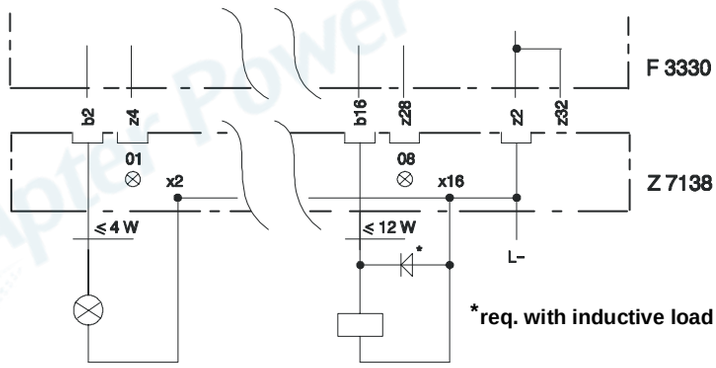


Lead marking of the cable plug
Z 7138 / 3330 / C..

Channel	Connection	Colour
1	b2	br
	x2	ws
2	b4	ge
	x4	gn
3	b6	rs
	x6	gr
4	b8	rt
	x8	bl
5	b10	vio
	x10	sw
6	b12	ws-gn
	x12	ws-br
7	b14	ws-gr
	x14	ws-ge
8	b16	ws-bl
	x16	ws-rs
L–	z2	sw
L+	z12	rt



Lead marking of the cable plug
Z 7138 / 3330 / C.. / P2
2-pole connection



2-pole connection

Planning hints

– max. 10 output modules with nominal load may be used in one I/O rack
– can be paralleled without external diodes
– for lamp load 4 W to 10 W refer to sketch:

