



F 3348: 8-channel output module

safety-related, applicable up to SIL 3 according to IEC 61508

- Output voltage 48 VDC
- resistive load or inductive load up to 500 mA
- lamp connection up to 4 W
- with integrated safety shutdown, with safe isolation

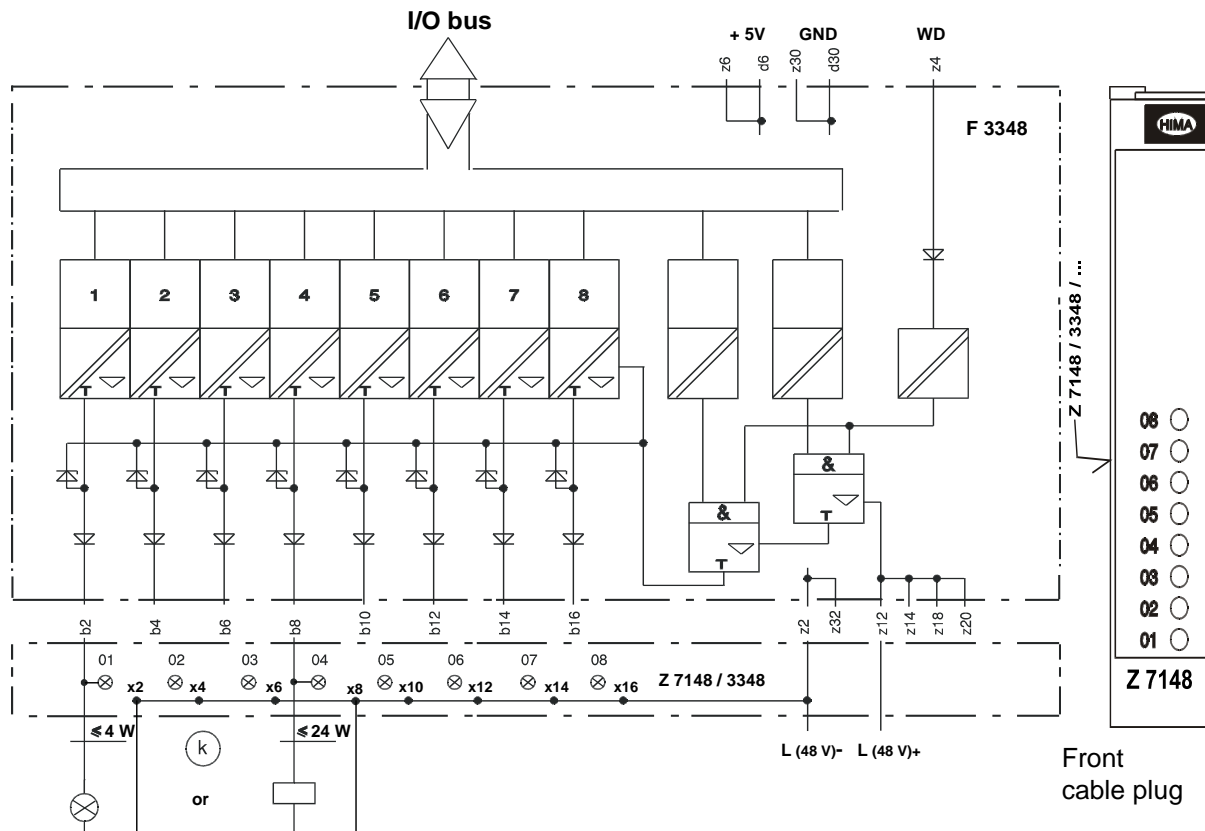


Figure 1: Block diagram and front cable plug

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 Ω
Operating point for short-circuit current	0.6...1.0 A
Output leakage current	max. 200 μ A
Output voltage if output is reset	max. 1.5 V
Monitored switching time	max. 200 μ s
Space requirement	4 SU
Operating data	5 VDC / 100 mA 48 VDC / 100 mA plus load (supply via cable plug)

Channel	Connection	Color		
1	b2	BN		
	x2	WH		
2	b4	YE		
	x4	GN		
3	b6	PK		
	x6	GY		
4	b8	RD		
	x8	BU		
5	b10	VT		
	x10	BK		
6	b12	WHGN		
	x12	WHBN		
7	b14	WHGY		
	x14	WHYE		
8	b16	WHBU		
	x16	WHPK		
L _(48V) -	z2	BN		
L _(48V) +	z12	WH		

Cable
LiYY 16 x 0.5 mm²

Cable
LiYY 2 x 1.0 mm²

Lead marking of the cable plug
Z 7148 / 3348 / C.. / P2
2-pole connection

Figure 2: Lead marking of the cable plug



The connection of capacitive loads is not permitted. A length of the connection line up to 3 km is possible. The line capacity, however, is limited to a maximum of 1 µF.