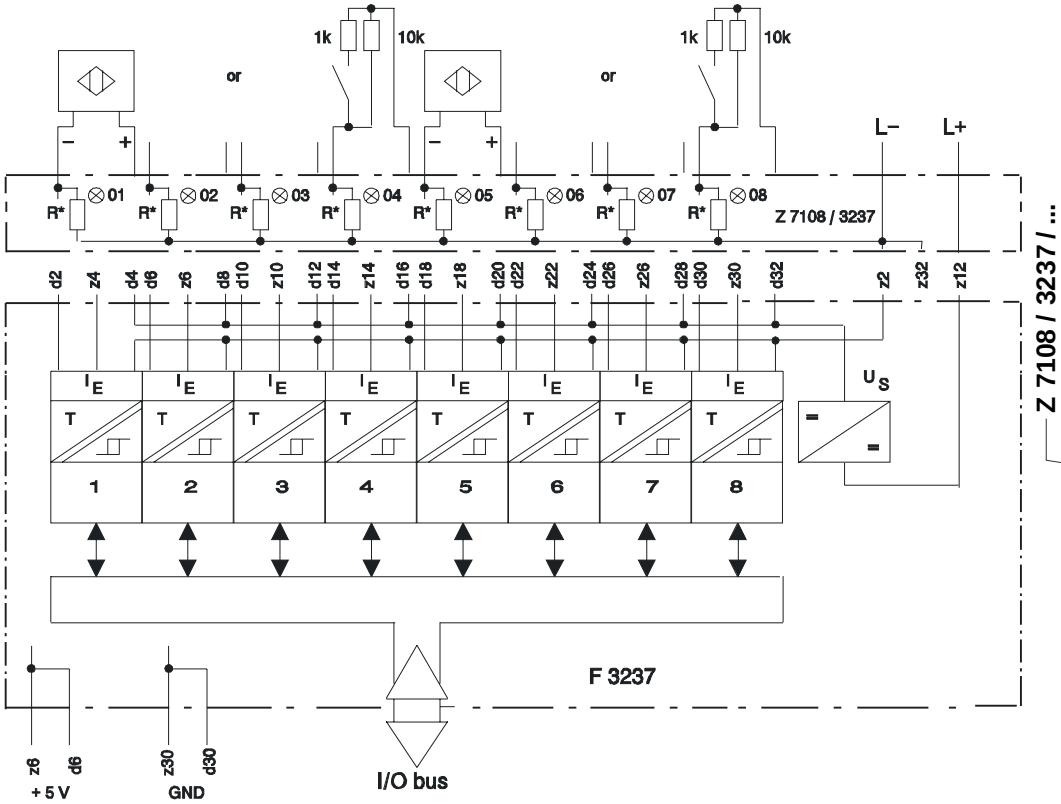
F 3237

F 3237: 8 fold input module, safety related

for the connection of safety related proximity switches, proximity switches acc. to DIN 19234 (NAMUR) and resistor-wired sensors
monitoring of the lines for short-circuit and line break
Safety related, requirement class AK 1 ... 6



Block diagram Front cable plug

The module is automatically tested completely during operation. The main test routines are:
- Switch on and switch off cability
- Crosstalk of the input circuits by walking 0 test
- Function of the input filters
- Correct function of the module
- Short circuit and wire break of the sensor line

Function of LEDs are not tested.
Appertaining softw. building block: HB-RTE-. (for current version refer to the description of the operating system).

Switching time	approx. 10 ms
Operating points I_E	
0 signal	$0.35 \leq I_E \leq 1.2$ mA
1 signal	$2.1 \leq I_E \leq 6.0$ mA
wire break	≤ 0.28 mA
short circuit	≥ 6.5 mA
Line impedance	≤ 50 Ohm (acc. to DIN 19234)
Line length	≤ 1000 m ($\varnothing = 0.5$ mm^2)
Supply voltage U_S	8.2 V
Shunt R*	681 Ohm; 1 %; 0.25 W
(R17 ... R24)	part no. 00 0751681
Space requirement	4 TE
Operating data	5 V =: 90 mA; 24 V =: 170 mA

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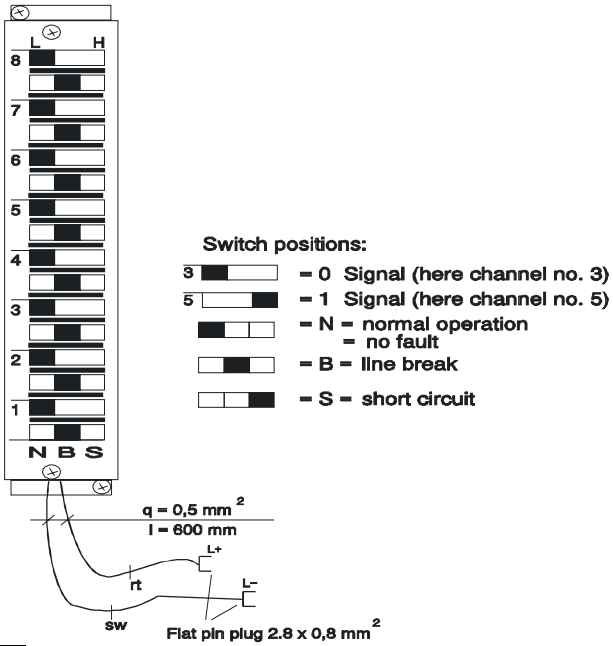
Channel	Connection	Colour
1	d2 d4 (x4)	ws br
2	d6 d8 (x8)	gn ge
3	d10 d12 (x12)	gr rs
4	d14 d16 (x12)	bl rt
5	d18 d20 (x20)	sw vio
6	d22 d24 (x24)	ws-br ws-gn
7	d26 d28 (x28)	ws-ge ws-gr
8	d30 d32 (x32)	ws-rs ws-bl
L– L– L+	 z2 z12	sw sw rt

Cable
LiYY 16 x 0.25 mm^2

LIY 0.5 mm^2
l = 2 m

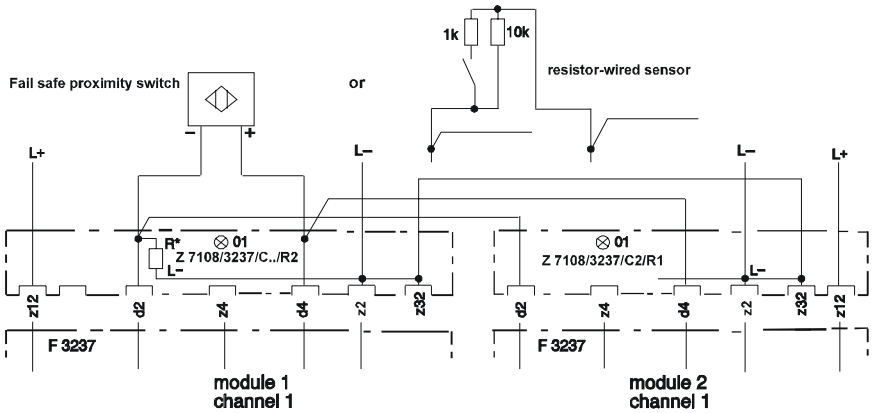
Flat pin plug
2.8 x 0.8 mm^2

q = 1 mm^2
l = 750 mm

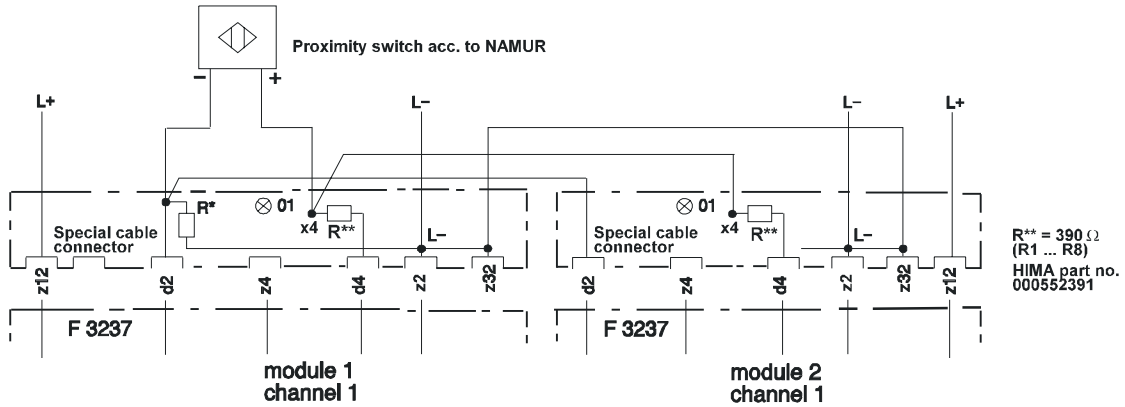


Construction test plug Z 7204

Lead marking cable plug
Z 7108 / 3237 / C..
(x.) with special cable connection



Redundant connection for one proximity switch circuit



Redundant connection for one proximity switch according to DIN 19234 (NAMUR)