

Model BG 5929



Features

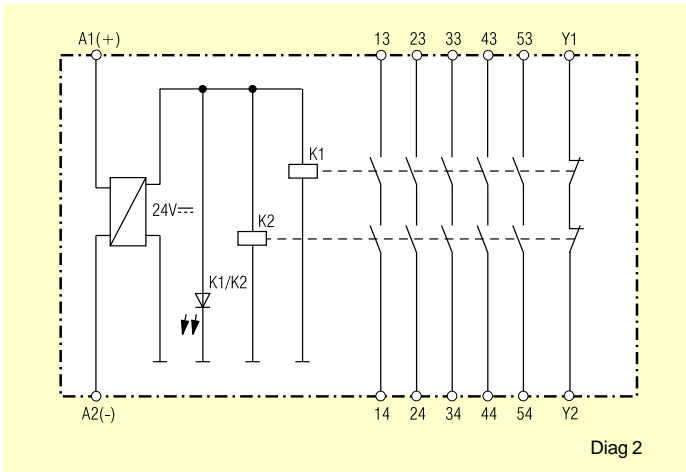
- Category 3 or 4, SIL CL3
- Contacts
 .60 - 5 N/O, 1 N/C
 .54 - 4 N/O, 2 N/C
- Ultra Compact 22.5 mm wide case
- Internal auxiliary power supply protection with automatic reset
- 24V AC/DC 110VAC , 230VAC auxiliary power supply

Description

Extension Module BG 5929 may be used in conjunction with Emergency Stop Relays or Gate Monitors to provide additional redundant switching contacts. One or more modules may be connected together. BG 5929 is housed in a 22.5 mm wide case suitable for DIN rail mounting and complies with the requirements of the Standard Specifications referred to on page x x of this catalogue.

Indication

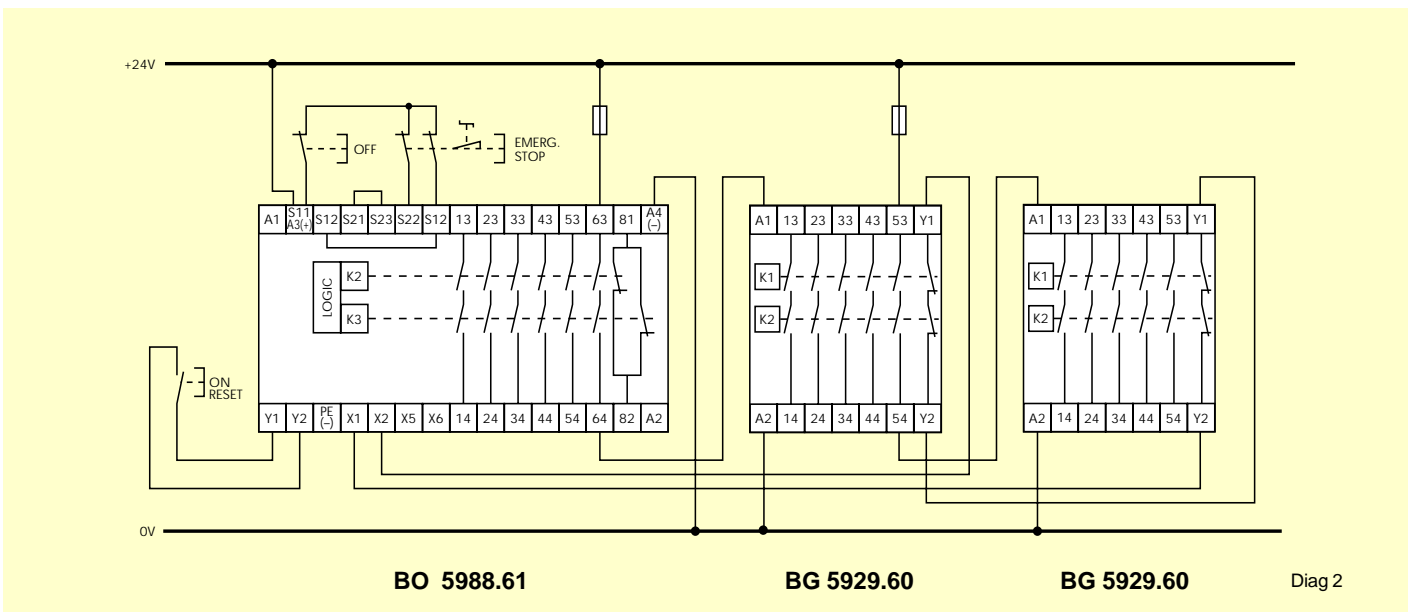
The relay is equipped with a single LED. When illuminated it indicates that power is connected to circuits K1 and K2.



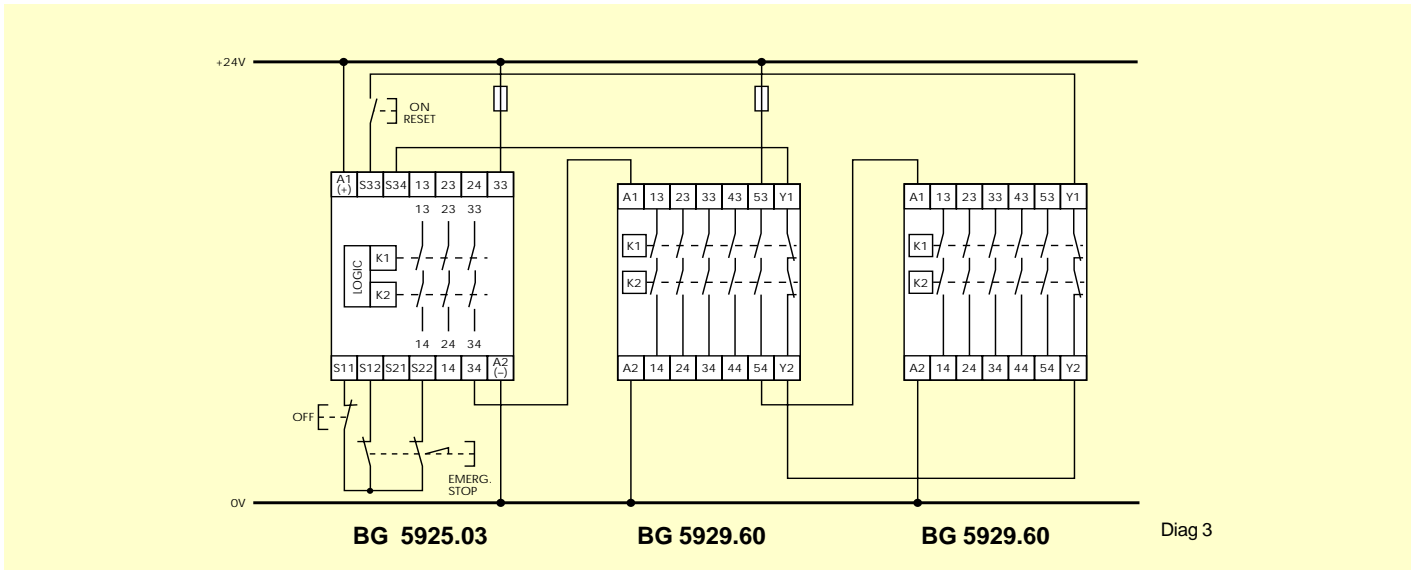
Diag 2

Circuit Connections

The schematic diagrams show the composite arrangement of an Emergency Stop relay powering two extension modules. Connections are made as shown with the auxiliary supply connected to terminals A1 (+) and A2 (-).



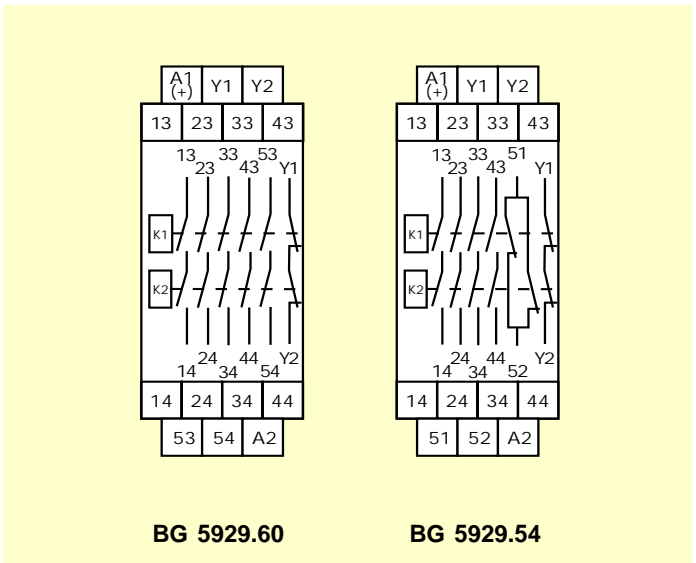
Diag 2



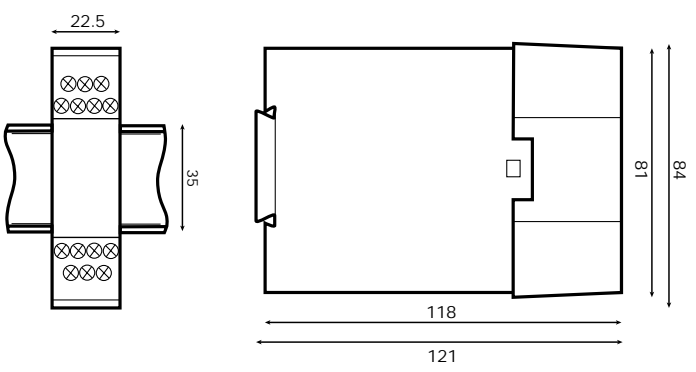
Specifications

Nominal Voltage (Vn)	24V AC/DC 110V, 230V ac (on request)
Burden	4VA ac, 1.2W dc
Voltage Tolerance	0.8... 1.1Vn ac, 0.8... 1.1Vn dc
Control Voltage	24V dc
Contacts	5 N/O, 1 N/C (.60) 4 N/O, 2 N/C (.54)
Max Switching Capacity	8A ac (cos ϕ 1 - 0.7) 8A dc see page **
Continuous Current Rating	N/O, 7A with 15mm air gap to either side of enclosure N/C, 5A, see also page **
Contact Life Mechanical	30 x 10 ⁶ operations
Contact Life Electrical	see page **
Derating Capacity (for Heavy Inductive Loads)	AC15, 4A, 250V ac N/O DC13, 4A, 24V dc N/O
Min Switching Voltage & Current	10V, 15mA ac/dc
Max Switching Voltage	250V ac, 250V dc
Max Switching Power	2000VA (AC1) 192W dc
Max Switching Frequency	6000 operations/hour
Reaction Times	Reset 20ms Release < 30ms
Operating Temperature	-15°C... +55°C at 90% RH
Protection Class	Case IP40 Terminals IP20
Test Voltage	2.5kV 1 minute
Shock Loading	Amplitude 0.35mm Frequency 10 - 55Hz (5g @ 50Hz)
Enclosure Material	Thermoplastic VO Rating UL94
Terminations	1 x 4mm ² solid 2 x 2.5mm ² solid 1 x 2.5mm ² stranded ferruled 1 x 1.5mm ² stranded

Terminal Layout



Typical Schematic Diagram



Information Required With Order

- Model type • Auxiliary supply

*Example: Extension Module Type BG 5929.60
Auxiliary Supply 24V ac/dc*

Weight 0.18 Kg