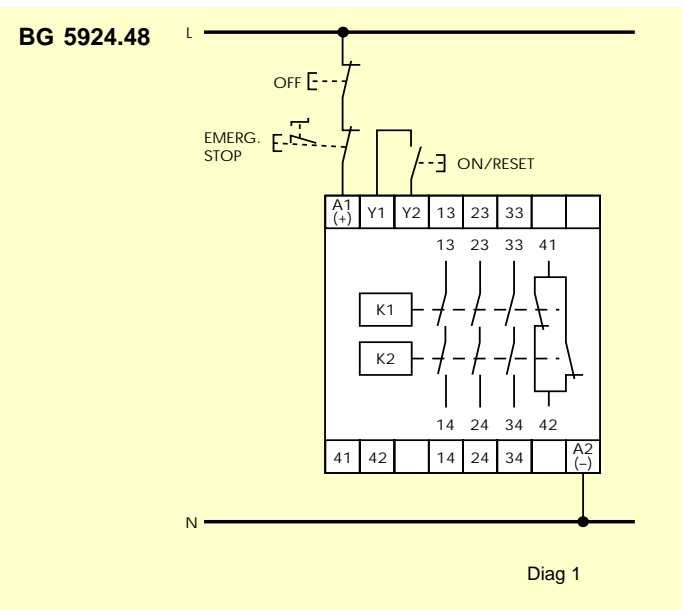




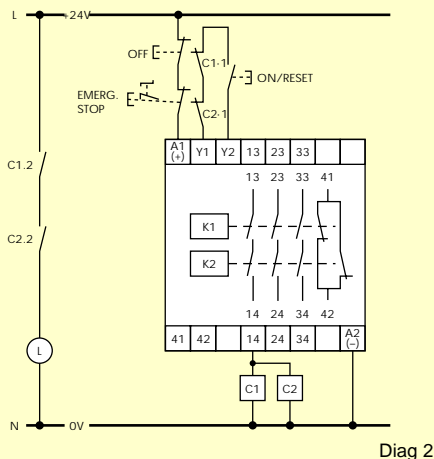
Model BG 5924



Typical Schematic Diagram



BG 5924.48 with external contactors. This diagram shows how external contactors with positive guided contacts C1 and C2 may be used to reinforce the switching capacity of BG 5924.48 with continued redundancy.



Features

- Category 2
- Contacts
3 N/O 1 N/C, 4 N/O, 2 N/O
- Ultra Compact 22.5 mm wide case
- Internal auxiliary power supply protection with automatic reset
- AC or 24V DC auxiliary power supply options

Description

Emergency stop relay BG 5924.48 complies fully with the requirements of the standard specifications referred to on page 3. This unit is housed in an ultra compact 22.5 mm case suitable for DIN rail mounting.

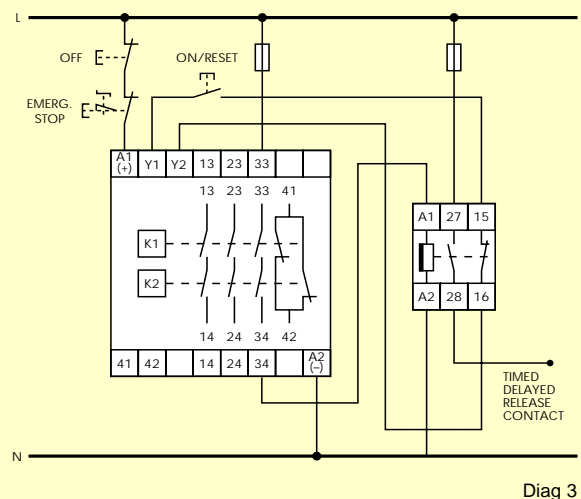
Circuit Connections

The OFF and the EMERGENCY STOP buttons are connected in series between L1 and terminal A1 with N connected to terminal A2. The On/Reset button is connected between terminals Y1–Y2 and the circuits to be tripped may be connected to terminals 13–14, 23 – 24 and 33 – 34. Terminals 41 – 42 are dedicated to remote signalling. When the EMERGENCY STOP button is activated power is removed from terminal A1, relays K1 and K2 de-energise and contacts 13 – 14, 23 – 24 and 33 – 34 open.

Indication

The relay is equipped with two LEDs. When illuminated they indicate the healthy condition of circuits K1 and K2.

BG 5924.48 with additional delayed release safety timer IL 7824, IN 7824, BA 7924

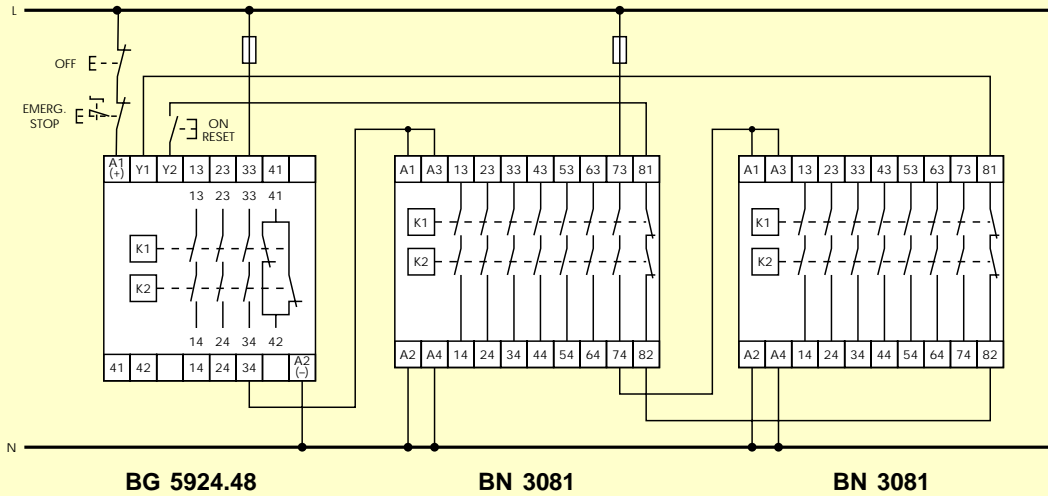


Emergency Stop Relay

Type BG 5924
safemaster



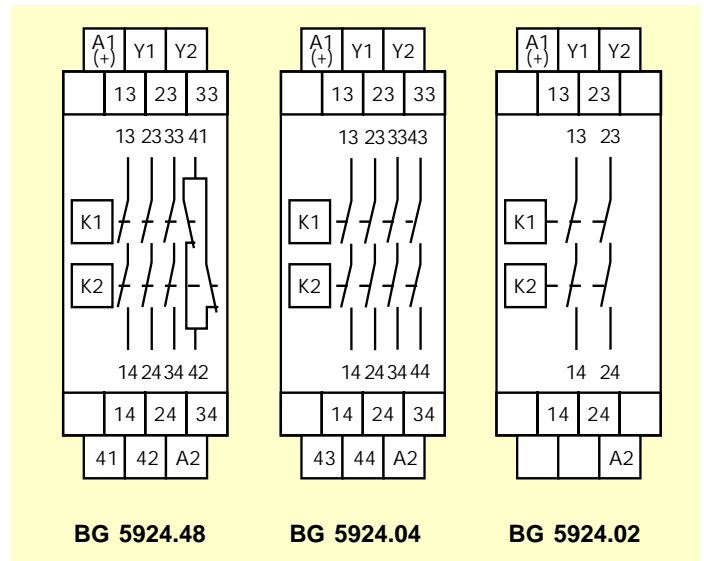
BG 5924.48 with BN 3081 Extension modules



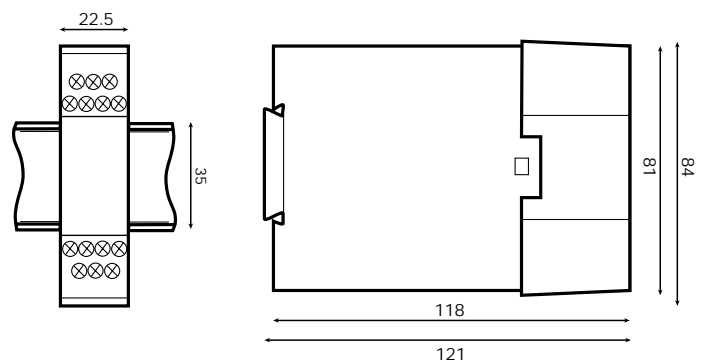
Specifications

Nominal Voltage (Vn)	24, 48, 110, 127, 230V ac or 24V dc (to be specified)
Burden	4VA ac, 1.2W dc
Voltage Tolerance	0.8... 1.1Vn ac, 0.8... 1.2Vn dc
Control Voltage	24V dc
Contacts	3N/O, 1 N/C
Max Switching Capacity	8A ac (cos φ 1 – 0.7) 8A dc see page 84
Continuous Current Rating	see page 85
Contact Life Mechanical	30 x 10 ⁶ operations
Contact Life Electrical	see page 84
Derating Capacity (for Heavy Inductive Loads)	AC15, 4A, 250V ac DC13, 4A, 24V dc
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 100ms ESTOP < 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



Weight 0.21 Kg

Information Required With Order

• Model type • Auxiliary supply
Example: Emergency Stop Relay Type BG 5924.48
Auxiliary Supply 24V dc