Emergency Stop Relay / Safety Gate Monitor

Awax 26XXL

E&OE

FEATURES

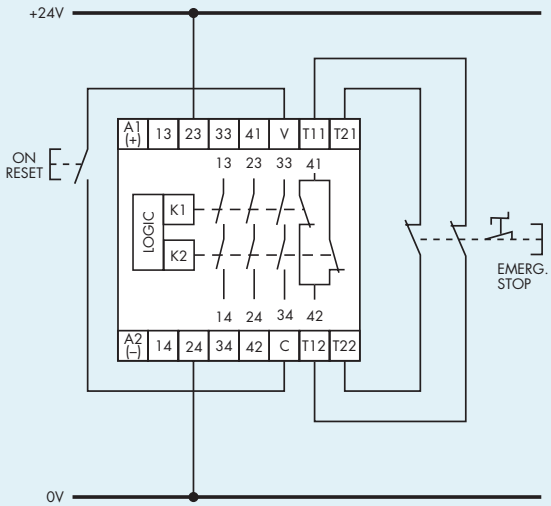
- **Category 3 or 4**
- **Contacts 3 N/O, 1N/C**
- **22.5mm wide case**
- **Internal auxiliary power supply protection with automatic reset**
- **24V ac/dc auxiliary power supply**
- **Short circuit/link monitoring of E-Stop pushbutton or safety switches**
- **Monitored manual reset or auto reset (switch programmable)**

Model Awax 26XXL

TYPICAL SCHEMATIC DIAGRAM

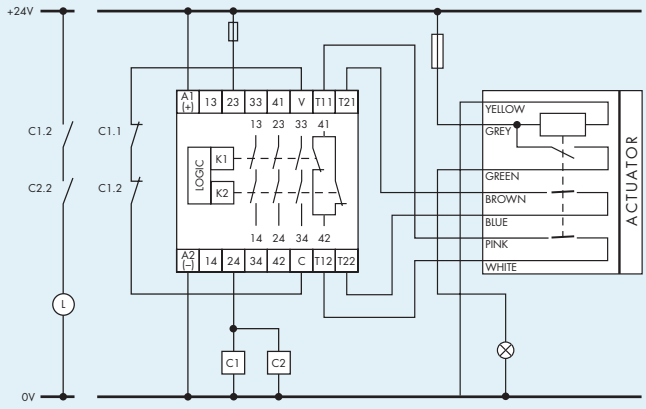
Awax 26XXL

Manual reset, Category 4 applications with cross monitoring of Estop circuit and link monitoring of reset pushbutton.



Diag 1

Awax 26XXL Auto reset, Category 3 applications used with Anatom 78 coded magnetic switch. The diagram also shows how external contactors with positive guided contacts C1 and C2 may be used to re-inforce the switching capacity of Awax 26 with continued redundancy.



Diag 2

DESCRIPTION

Emergency Stop Relay Awax 26XXL complies fully with the requirements of EN60204, EN292 and EN954-1. The unit is housed in an ultra compact 22.5mm wide case suitable for DIN rail mounting and employs fail-safe electronic circuitry for the self-checking and short circuit/link monitoring features. In addition to its use as a stand-alone emergency stop unit, the relay has been designed specifically for use with the **Anatom**, **Trithon** and **Epinus** magnetic safety switches shown later in this catalogue. When used with these switches, multiple switches can be connected to a single relay.
The unit employs an electronic fuse for supply protection, allowing much faster reaction time and providing extra protection for internal circuitry and external switches.
A switch mounted on the rear of the relay allows monitored manual reset or auto reset to be selected.

CIRCUIT CONNECTIONS

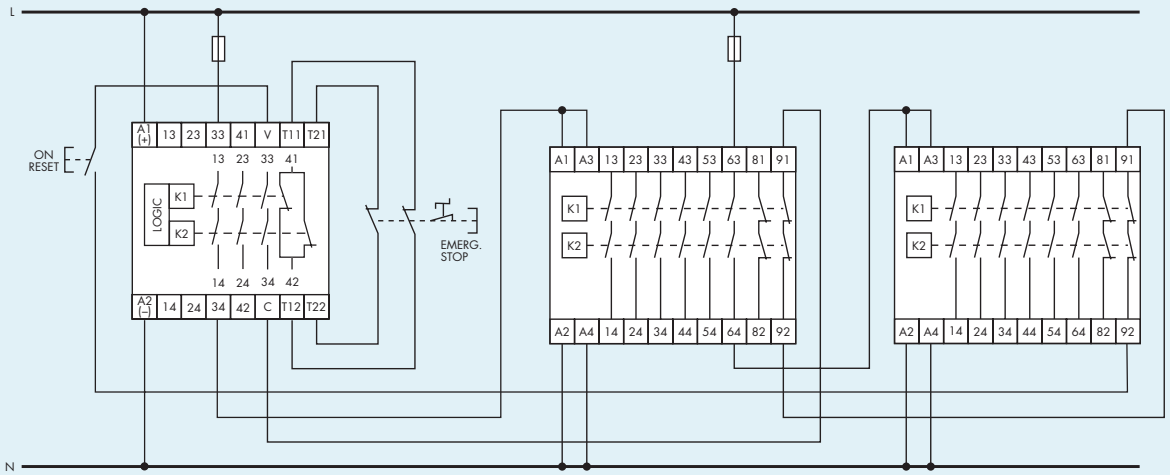
The OFF and the EMERGENCY STOP buttons are connected in series between terminals T11/T12 and T21/T22 the auxiliary supply is connected to terminals A1(+)/A2(–). The circuits to be tripped may be connected to terminals 13–14, 23–24 and 33–34. If remote signalling is required, terminals 41–42 may be used.

When the EMERGENCY STOP button is activated power is removed from terminals T11/T21, relays K1, K2 are de-energised and contacts 13–14 and 23–24 open.

INDICATION

The relay is equipped with three LEDs. A red LED indicates the presence of an auxiliary supply. Two green LEDs indicate the healthy condition of circuits K1 and K2.

Awax 26XXL with F122 Extension modules



Awax 26XL **F122** **F122**

Diag 3

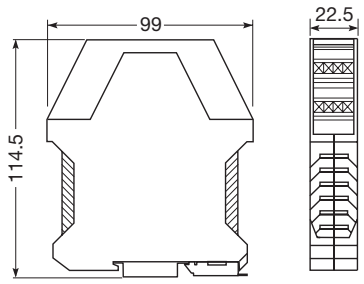
SPECIFICATIONS

Nominal Voltage (Vn)	24V ac/dc
Burden	<5VA (ac), <2W (dc)
Voltage Tolerance	0.9–1.1 Vn
Frequency	50 to 60Hz ±5%
Control Voltage	24V dc (T21/T11)
Min. Return Voltage	18V dc (T12/T22)
Contacts	$AgSnO_2$
Switching Capacity	8A, 250V ac
Contact Life Mechanical	10 x 10^6 operations
Min. Switching Power	>50mW
Max. Switching Power	2000VA (AC1)
Max. Switching Frequency	6000 operations/hour
Max. Loop Resistance	47Ω (T11–T12/T21–T22)
Reaction Times	Reset <20ms
	Estop <20ms
Short circuit detection response time	2µs
No. Anatom switches per module	5 self supplied switches
	30 switches with seperate supply
Operating Temperature	–10°C...+55°C
Protection Class	Case IP40 Terminals IP20
Test Voltage	2.5KV 1 minute
Enclosure Material	Thermoplastic VO Rating UL94
Terminations	4mm² solid
	2.5mm² stranded

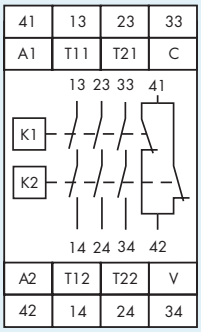
ADDITIONAL INFORMATION

If additional switching contacts are required then Relay Awax 26XXL may be used with extension module Type F122 (diag 3) or F112. Should a time delayed release contact be required then Awax 26XXL may be used with time delay module E23 or F128.

DIMENSIONS



TERMINAL LAYOUT



Information Required With Order

• Model type • Auxiliary supply

Example: Emergency Stop Relay Type Awax 26XXL, Auxiliary Supply 24V ac/dc

DATA SHEET **RI13077**