

MTL4421RS GENERAL PURPOSE SWITCH OPERATED RELAY



with 24V logic override facility

The MTL4421RS enables an on/off device in a non-hazardous area to be controlled by a voltage signal from the control unit. It can drive loads such as solenoids, alarms, LEDs and other devices. Provided that 24V dc is applied to the override input, the solenoid/alarm can be operated by the control input. However, if the 24V dc signal is removed, the solenoid/alarm is turned off.

SPECIFICATION

See also common specification

Number of channels

One

Location of the load

Safe-area

Control input

Suitable for open collector or switch input logic drive or with external pull up.

0 = <4V applied across terminals 10 & 11

1 = >15V applied across terminals 10 & 11

Override input

A 24V logic signal must be applied across terminal 8 and 9 to allow the solenoid/alarm to be operated by the control input. If it is disconnected, the solenoid/alarm is off.

Control and override inputs

Control input state	Override input	Output relay
0	0V	open
1	0V	open
0	24V	closed
1	24V	open

Relay output characteristic

Normally open contacts

Contact rating: 60W, 125VA

Contact life expectancy: 0.5A, 15W /2A, 60W

$1.8 \times 10^7 / 10^6$ operations at maximum load

Response time

set-/release-/ reset time

3ms/ 5ms/ 2ms

LED indicators

Green: one provided for power indication

Amber: one provided for status, ON when relay is closed

one provided for status, ON when output circuit is active

Power requirements

28mA at 24V dc

24mA at 20V dc

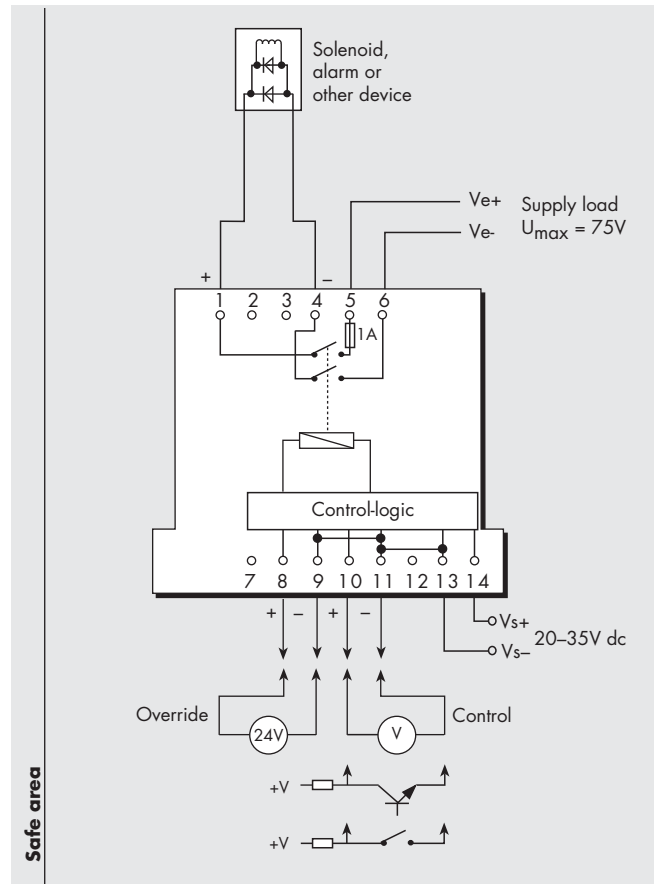
37mA at 35V dc

Power dissipation within unit

0.7W typical

Mounting

This module must not be placed next to intrinsic safety modules. Mounting on an alternative backplane is recommended. If mounted on the same backplane, 3 module positions must be left blank between IS and non-IS circuits. IS and non-IS wiring must be routed to maintain 50mm segregation.



Terminal	Function
1	Output +ve
4	Output -ve
5	Supply load +ve (Fused 1A)
6	Supply load -ve
8	Override +ve
9	Override -ve
10	Control +ve
11	Control -ve
13	Supply -ve
14	Supply +ve



EUROPE (EMEA)
AMERICAS
ASIA PACIFIC
E-mail: enquiry@mtl-inst.com

Tel: +44 (0)1582 723633
Tel: +1 603 926 0090
Tel: +65 6 487 7887

Fax: +44 (0)1582 422283
Fax: +1 603 926 1899
Fax: +65 6 487 7997

Web site: www.mtl-inst.com