

# MTL2215 SWITCH/ OPERATED RELAY IS-output

The MTL2215 enables either one or two separate IS circuits in a hazardous area to be relay-contact controlled by a single on/off switch or logic signal in a safe area. Applications include the calibration of strain-gauge bridges, changing the tone of an IS sounder, the testing of IS fire alarms, and the transfer of safe-area signals into an annunciator with IS input terminals not segregated from each other. The output-relay contacts are certified as 'non-energystoring' apparatus, and can be connected to any IS circuit without further certification, provided that separate IS circuits are such that they would still remain safe if connected together.

## SPECIFICATION

See also 'Common specification'

### Number of channels

One, fully floating

### Location of control circuit

Safe area

### Input/output characteristics

Relay energised if  $<27k\Omega$  or  $<1V$  applied

Relay de-energised if  $>54k\Omega$  or  $>2V$  applied (50V maximum)

Hysteresis, nominal:  $16k\Omega$  or 0.6V

### Power supply failure protection

Relay de-energised if supply fails

### Response time

50ms, nominal

### Contacts (suitable for connection to IS circuits)

2-pole changeover

### Contact rating (non-IS applications)

250V,5A,500VA (ac), resistive loads, reactive loads must be suppressed

250V,5A,250W (dc), resistive loads, reactive loads must be suppressed

### Contact life expectancy (non-IS applications)

$2 \times 10^5$  operations at maximum load

### LED indicator

ON when relay energised

### Consumption

0.9 to 1.4W (ac versions)

60mA (24V dc version)

### Ambient temperature limits

-20 to +55°C (all versions, close packed)

-20 to +60°C (all versions, at least 5mm apart)

-40 to +80°C (all versions, storage)

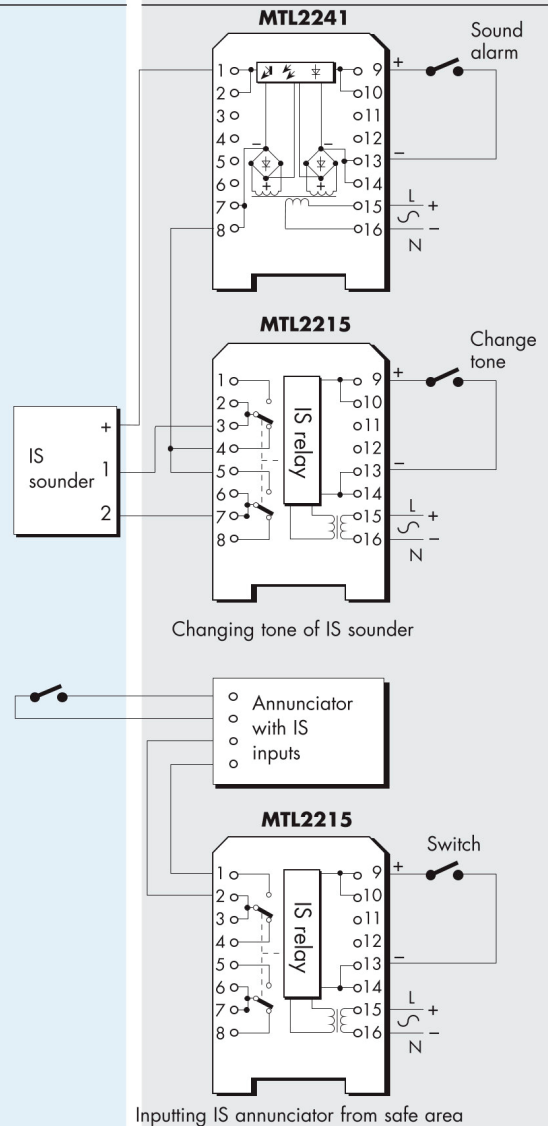
### Safety description (each channel)

Non-energy-storing apparatus: relay contacts may be connected to any certified IS circuit in Zone 0 without further certification

Note: The 2-pole changeover contacts may be used to switch separate IS circuits only if these remain intrinsically safe when interconnected, since the two sets of relay contacts are not segregated from each other.

## Hazardous area

## Safe area



All contacts shown in alarm condition (relay de-energised)



**Eaton Electric Limited,**  
Great Marlings, Butterfield, Luton  
Beds, LU2 8DL, UK.  
Tel: + 44 (0)1582 723633 Fax: + 44 (0)1582 422283  
E-mail: mtlenquiry@eaton.com  
www.mtl-inst.com

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**EUROPE (EMEA):**  
+44 (0)1582 723633  
mtlenquiry@eaton.com

**THE AMERICAS:**  
+1 800 835 7075  
mtl-us-info@eaton.com

**ASIA-PACIFIC:**  
+65 6 645 9888  
sales.mtling@eaton.com

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