# MTL4526 – MTL5526 SWITCH-OPERATED RELAY

2-channel IS-output

The MTLx526 enables two separate IS circuits in a hazardous area to be contact controlled by one or two, on/off, control signals in a safe area. Applications include the calibration of strain–gauge bridges; changing the polarity (and thereby 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–energy–storing apparatus, and can be connected to any IS circuit without further certification, provided that separate IS circuits are such that they would remain safe if connected together.

### **SPECIFICATION**

### See also common specification

### **Number of channels**

Two, fully floating

### Location of control circuit

Safe area

### Input/output characteristics

Contact/Logic mode

(Inputs suitable for switch contacts, an open-collector transistor

or logic drive)

Relay energised if  $< 450\Omega$  or < 1V applied

Relay de-energised if  $> 5k\Omega$  or > 2V applied (35V max.)

Loop powered mode

Relay energised if >20V Relay de-energised if <17V Power supply failure protection

Relays de-energised if supply fails

# Response time

25ms nominal

# Contacts (suitable for connection to IS circuits)

1-pole changeover per channel

# Contact rating

250V ac, limited to 40V dc for IS applications, 2A  $\,$ 

(reactive loads must be suppressed)

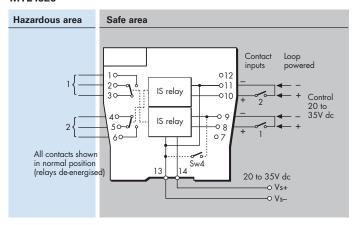
# Contact life expectancy

2 x 10<sup>7</sup> operations at maximum IS load

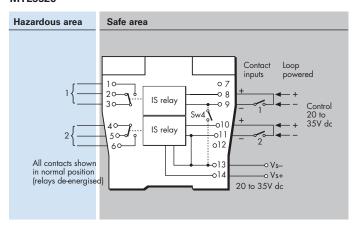
### Relay drive (see switch setting table)

Choice of "loop-powered" or "contact/logic" control, for both channels, by switch selection. A further switch option ("1in2out") enables either input, in contact/logic mode, to activate both outputs.

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### **LED** indicators

Green: power indication

Yellow: two: output status, on when relay energised

## Power requirement, Vs

41mA at 20V dc 44mA at 24V dc 60mA at 35V dc

### Power dissipation within unit

1.1W maximum at 24V

### Safety description (each channel)

Non-energy-storing apparatus: relay contacts may be connected to any IS circuit without further consideration

### User switch settings for operating mode

Mode	Function	SW1	SW2	SW3	SW4
Contact/Logic	2 ch	Off	On	On	On
	1in2out	On	On	On	On
Loop Powered	2 ch	Off	Off	Off	Off



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