MTL4526 – MTL5526
SWITCH-OPERATED RELAY
2–channel IS–output

The MTLX526 enables two separate IS circuits in a hazardous area to be relay-contact controlled by two on-off switches or logic 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	< 450Ω or < 1V applied
Relay de–energised if	> 5kΩ 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

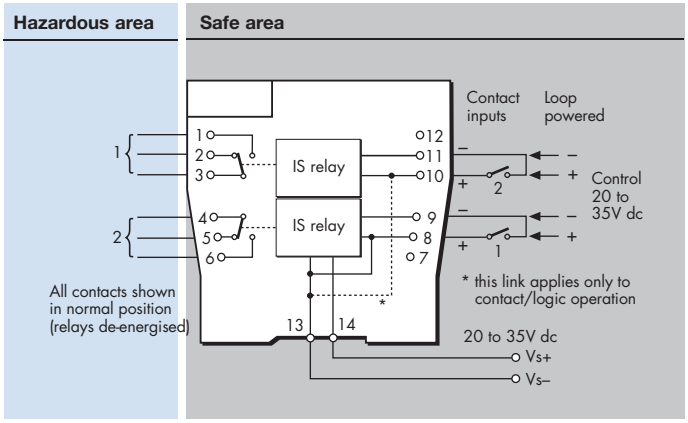
Contacts (suitable for connection to IS circuits)
1–pole changeover per channel

Contact rating
250V dc, limited to 30V dc for IS applications, 2A
(reactive loads must be suppressed)

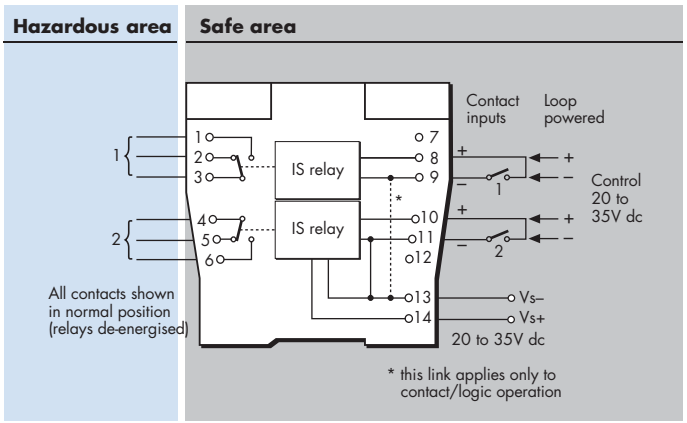
Contact life expectancy
2 x 10^7 operations at maximum IS load

Relay drive (see switch setting table)
Switch selection of loop powered or contact/logic control for both channels. Further switch selects "1in2out" mode

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*Signal plug HAZ1-3 is required for access to this function

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 Input	2 ch	Off	On	On	On
	1in2out	On	On	On	On
Loop Powered	2 ch	Off	Off	Off	Off

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.

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