

MTL4623L

SOLENOID/ ALARM DRIVER

loop-powered with line fault detection

With the MTL4623L interface, an on/off device can be controlled by a voltage signal. It is suitable for driving loads such as solenoids. Line fault detection (LFD), which operates when the output is energised, is signalled by a solid-state switch which energises if a field line is open or short-circuited. Earth fault detection can be provided by connecting an MTL4220 earth leakage detector to terminal 3.

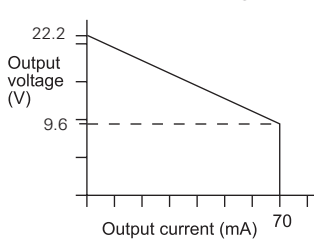
SPECIFICATION

See also common specification

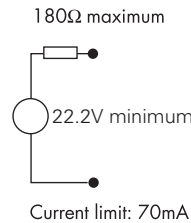
Number of channels

One

Minimum output voltage



Equivalent output circuit



Input voltage

20 to 35V dc

Output

Minimum output voltage: 9.6V at 70mA
 Maximum output voltage: 24V from 180Ω
 Current limit: 70mA

Output ripple

< 0.5% of maximum output, peak to peak

Response time

Output within 10% of final value within 100ms

Line fault detection (LFD)

Open or short circuit in field cabling energises solid state line fault signal

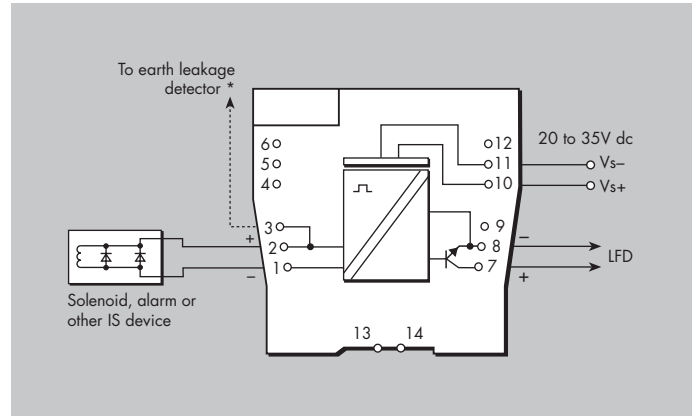
LFD transistor is switched on, provided that the field circuit impedance is > 55Ω and < 4kΩ.

Line fault signal characteristics

Maximum off-state voltage: 35V
 Maximum off-state leakage current: 10μA
 Maximum on-state voltage drop: 2V
 Maximum on-state current: 50mA

Note: LFD signal is Zener-diode protected against inductive loads

MTL4623L



LED indicators

Yellow: output status, on when output active

Red: LFD indication, on when line fault detected

Maximum current consumption

125mA at 24V dc

Power dissipation within unit

1.4W with typical solenoid valve, output on

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.



EUROPE (EMEA): +44 (0)1582 723633
 enquiry@mtl-inst.com

THE AMERICAS: +1 800 835 7075
 csinfo@mtl-inst.com

ASIA-PACIFIC: +65 6 645 9888
 sales.mtlsing@cooperindustries.com

EPS4623L Rev2 290415