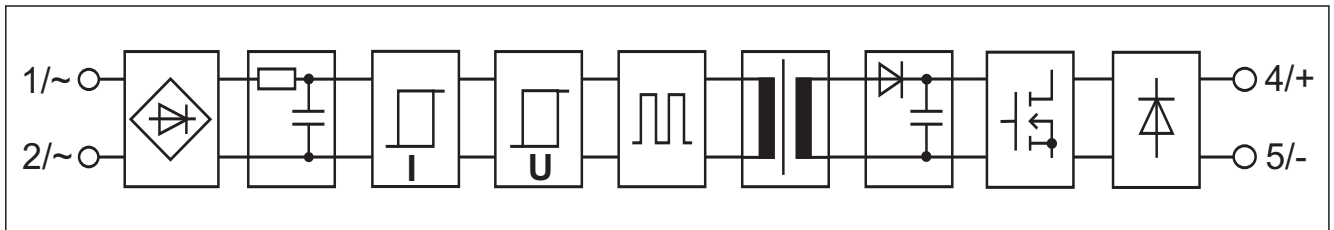


GL-series solid state input relay

- Plug-in input relay for 110...120 VAC voltages
- 50 mA maximum load current
- 0...60 VDC load voltage
- Integrated status LED
- Works without logic supply (4 pole)
- For PLC input signal conditioning
- For use with proximity switches
- CE (EMC and LVD)

Block diagram



Specifications (at temperature of 25 °C)

Primary

Input voltage	nominal	110...120 VAC
Input current	typical	7 mA
at nominal voltage	maximum	8 mA
Input voltage range	minimum	95 VAC
(abs.)	maximum	140 VAC
Input impedance	typical	17 kΩ
Switch-on voltage	typical	80 VAC
	maximum	95 VAC
Switch-off voltage	typical	60 VAC
	minimum	50 VAC
Noise immunity	typical	10 mJ

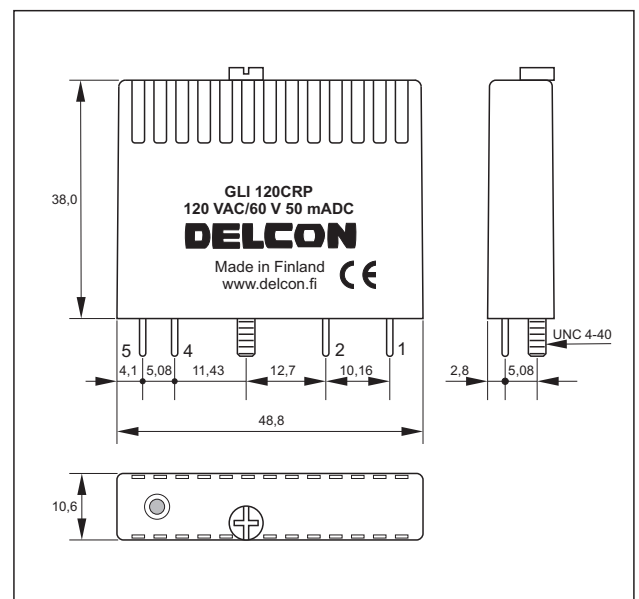
Secondary

Load voltage	minimum	0 VDC
	maximum	60 VDC
Load current	maximum	50 mA
Voltage drop at max. load	typical	0,2 VDC
	maximum	0,4 VDC
Switch-on delay	typical	20 ms
	maximum	-
Switch-off delay	maximum	40 ms
	maximum	-

Physical dimensions and other data

Breakdown voltage I/O	Minimum	4300 VAC rms
Material	thermoplastic	UL 94 V-0
Weight	typical	30 g
Air/creepage distance I/O	minimum	8 mm
Capacitance I/O	typical	3 pF
Temperatures		
storage		-40 °C...+70 °C
operation		-25 °C...+70 °C

Color of casing: orange



Dimensions in mm.

Temperature limitations

Ambient temperature	Limitation
-25 °C...+40 °C	No limitations
+40 °C...+55 °C	Only every other relay should be in on-state when assembled side by side.
+55 °C...+70 °C	If relays are most of the time on, there should be a gap in both side at least 12,5 mm.

Derating when switching inductive loads

This relay is meant for PLC inputs and similar loads. A clamp diode must be used when switching inductive loads.

Fusing

To protect relay against short circuit and overload a fast fuse with the correct rating for the load and the capacity of the relay should be chosen. Note that when overload current is not large it is possible that the fuse will not protect the relay because of the tolerance on the fuse rating.

Approvals



Product has been designed to meet the main requirements of the EMC-directive 2004/108/EC. The secondary side of the relay has designed to operate up to specified low voltage levels, thus the relay does not comply with the high test voltages specified in the EN61000-4-5 standard.

The relay fulfils requirements of the low voltage directive 2006/95/EC.

Guarantee

The solid state I/O relays and accessories made by Delcon Oy are guaranteed free from design and manufacturing defects for a period of three years from the shipping date. For electromechanical relays the guarantee is one year. The guarantee liability is limited to replacement of defective material and related shipping charges. Defective materials must be returned to the manufacturer for evaluation. This guarantee does not cover damage due to incorrect use or electrical overload.

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