

SLI 24CRF

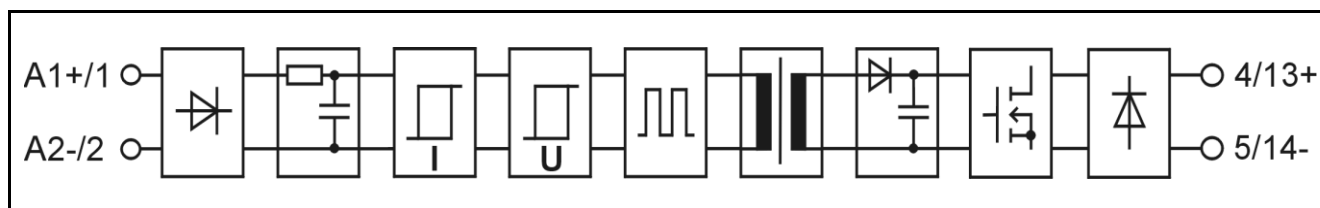
SL-series plug-in relay

Main features

- Solid state input relay
- cULus Listed, CE (EMC and LVD)
- Integrated status LED
- Used with mechanical limit switches
- Fast switching up to 10 kHz



Functional block diagram



Main specifications

Breakdown voltage I/O	minimum	4300	VAC rms
Air/creepage distances I/O	minimum	8	mm
Capacitance I/O	typical	3	pF
Material of the casing	PBT	UL 94V-0	
Colour of the casing		White	
Weight	typical	40	g
Temperature range:			
Storage	range	-40...+70	°C
Operation	range	-40...+70	°C

Electrical specifications ($T_A = 25\text{ °C}$)

Primary				Secondary			
Input voltage	nominal	24	VDC	Load voltage	minimum	0	VDC
Input current at nominal voltage	typical	6	mA	Load current	maximum	60	VDC
	maximum	7	mA		typical	50	mA
Input voltage range (abs.)	minimum	18	VDC	Voltage drop at max. load	maximum	0,2	V
	maximum	32	VDC		typical	0,4	V
Input impedance	typical	4	kΩ	Switch-on delay	maximum	5	μs
Switch-on voltage *	typical	16	VDC		typical	10	μs
	maximum	18	VDC	Switch-off delay	maximum	20	μs
Switch-off voltage	typical	14	VDC		typical	25	μs
	minimum	12	VDC	Leakage current (off-state)	maximum	1	μA

Ambient temperature (T_A) means the temperature immediate in vicinity of relays, where the air flow meets the relays.

* In the operational temperature range -40 °C...+70 °C the switch-on voltage is 20,4 VDC maximum (24 VDC - 15 %).

Limitations

No assembling limitations.

Derating when switching inductive loads

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

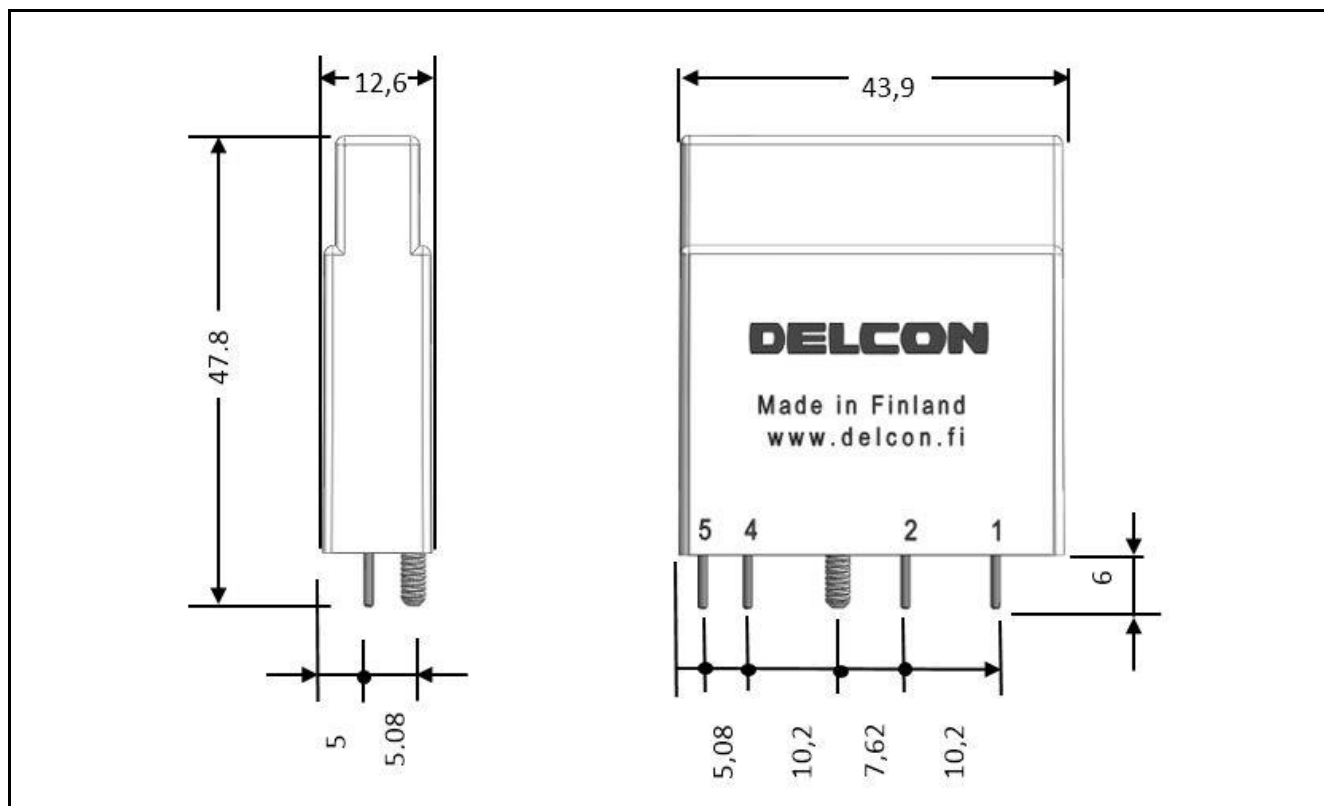
Fusing

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.

Assembling



Can be assembled to all MIS 1... -mounting sockets and all MB/MBS 8/16... -mounting bases. Fixing with a captive screw. The recommended installation is to the horizontal rail for better cooling of the relays.

Mechanical dimensions



SLI-relay (plug-in), dimensions in mm, nominal.

Approvals

	Certificate: E162828
	Fulfils 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. Fulfils requirements of the low voltage directive (LVD) 2006/95/EC.

Guarantee

This solid state I/O relay type made by Delcon Oy is guaranteed free from design and manufacturing defects for a period of 10 years from the production date. The guarantee liability is limited to replacement of defective material and related shipping charges. Defective products must be returned to the manufacturer for evaluation. This guarantee does not cover damage due to incorrect use or electrical overload.