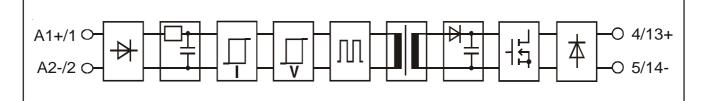


SLI 250CRS

SL-series solid state input relay

- DIN-rail mount input relay for 220...250 VDC voltage
- 50 mA maximum load current
- 0...60 VDC load voltage
- Works without logic supply (4 pole)
- For PLC input signal conditioning
- Immune to disturbances on signal lines
- Shielded signal cabling not required
- cULus tested (UL and CSA)
- CE (EMC and LVD tested)
- Integrated status LED

Block diagram



Specifications (at temperature of 25 °C)

Primary

Input voltage	nominal	220250 VDC
Input current	typical	4 mA
at nominal voltage	maximum	4,2 mA
Input voltage	minimum	190 VDC
range (abs.)	maximum	265 VDC
Input impedance	typical	68 kΩ
Switch-on voltage	typical	170 VDC
	maximum	190 VDC
Switch-off voltage	typical	110 VDC
	minimum	80 VDC
Noise immunity	typical	1 mJ

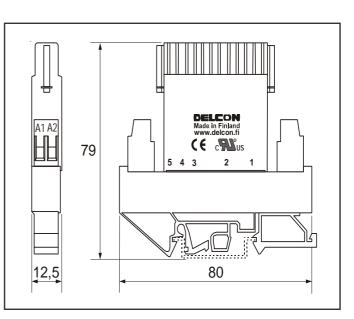
Secondary

Load voltage	minimum	0 VDC
C C	maximum	60 VDC
Load current	maximum	50 mA
Voltage drop at max. load	typical	0,2 V
	maximum	0,4 V
Switch-on delay	typical	1 ms
	maximum	-
Switch-off delay	typical	2 ms
	maximum	-

Physical dimensions and other data

Breakdown voltage Resistance Materials:	minimum minimum	4000 VAC rms 10 ¹⁰ Ω
housing	thermoplastic	UL 94 V-0
socket	thermoplastic	UL 94 V-2
Weight	typical	60 g
Air/creepage distance	minimum	8 mm
Capacitance I/O	typical	3 pF
Screw terminals:		-
solid wire	4 mm ²	(AWG 12)
stranded	2,5 mm ²	(AWG 14)
Torque	maximum	0,5 Nm

Color of casing: white



Dimensions in mm.

Temperature limitations

	Ambiient	temperature	Limitation
--	----------	-------------	------------

-25 °C...+70 °C No limitations

+55 °C...+70 °C If relays are most of the time on, there should be a gab in both sides at least 12,5 mm.

Temperature range:

 Storage:
 -40 °C...+70 °C

 Operation:
 -25 °C...+70 °C

Derating when switching inductive loads

This relay is ment for PLC inputs and similar loads. A clamp diode must be used when swiching 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, for instance from the Wickman 193 range. 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

CRUS UL-file E 162828

The relay fulfils EMC-directive 89/336/EEC requirements. Product has been tested according generic standards EN50081-2 and EN50082-2. The relay fulfils also requirements of the low voltage directive 73/23/EEC.

Guarantee

CE

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 products must be returned to the factory for evaluation. This guarantee does not cover damage due to incorrect use or electrical overload.

Delcon Oy Veikkointie 4 03100 Nummela Finland

Tel. +358 9 7771180 Fax +358 9 77711840 www.delcon.fi

28.1.2004