

DATA SHEET

LINET-COMPATIBLE RELAY MOUNTING BASE AND RELAY

FEATURES:

- MOUNTING BASE WITH INTEGRATED LINET NODE FOR SOLID STATE INPUT AND OUTPUT RELAYS
- CONFIGURATION LED INDICATOR
- OUTPUT RELAYS AVAILABLE FOR 240 VAC OR 60 VDC SWITCHING
- WIDE RANGE OF INPUT RELAYS AVAILABLE
- 4000 VAC PULSE TRANSFORMER ISOLATION



APPLICATIONS:

- LIGHT CONTROL SYSTEMS
- INDUSTRIAL AUTOMATION
- BUILDING AUTOMATION
- ETC.

1. SOLID STATE OUTPUT RELAYS

The MOS1L is a DIN-rail mountable base which includes built-in Linet network node, a pushbutton and a led to cofigure the device, and a relay adapter. A low input current type of output relays made by Delcon may be used with the base.

The AC output relay is used for all nominal voltages from 0 to 240 VAC. Pulse transformer technology means that the triac receives a continuous control current throughout the AC cycle, so very strong triacs can be used. The inclusion of a varistor inside the relay as standard means that the relays can safely be used even when there are high voltage spikes on the load lines. The relays operate independently from power factor and from supply frequency, so they are equally suitable for use in 120 VAC 60Hz as well as 230VAC 50Hz and even 400Hz supply systems. There is no minimum load requirement.

The DC output relay is for industrial DC loads up to 60 volts. The output switch is a power MOSFET.

TABLE 1. OUTPUT RELAY PARAMETERS

PARAMETER	TYP.	UNITS
SLO24TL - AC output relay electrical parameters		
Nominal load voltage	240	VAC
Load voltage, min - max	0-265	VAC
Load current cont.	3	A
Load current 20 ms	90	A
SLO24CL - DC output relay electrical parameters		
Nominal load voltage	60	VDC
Load voltage, min - max	0-66	VDC
Load current cont.	3	A
Load current 10 ms	15	A

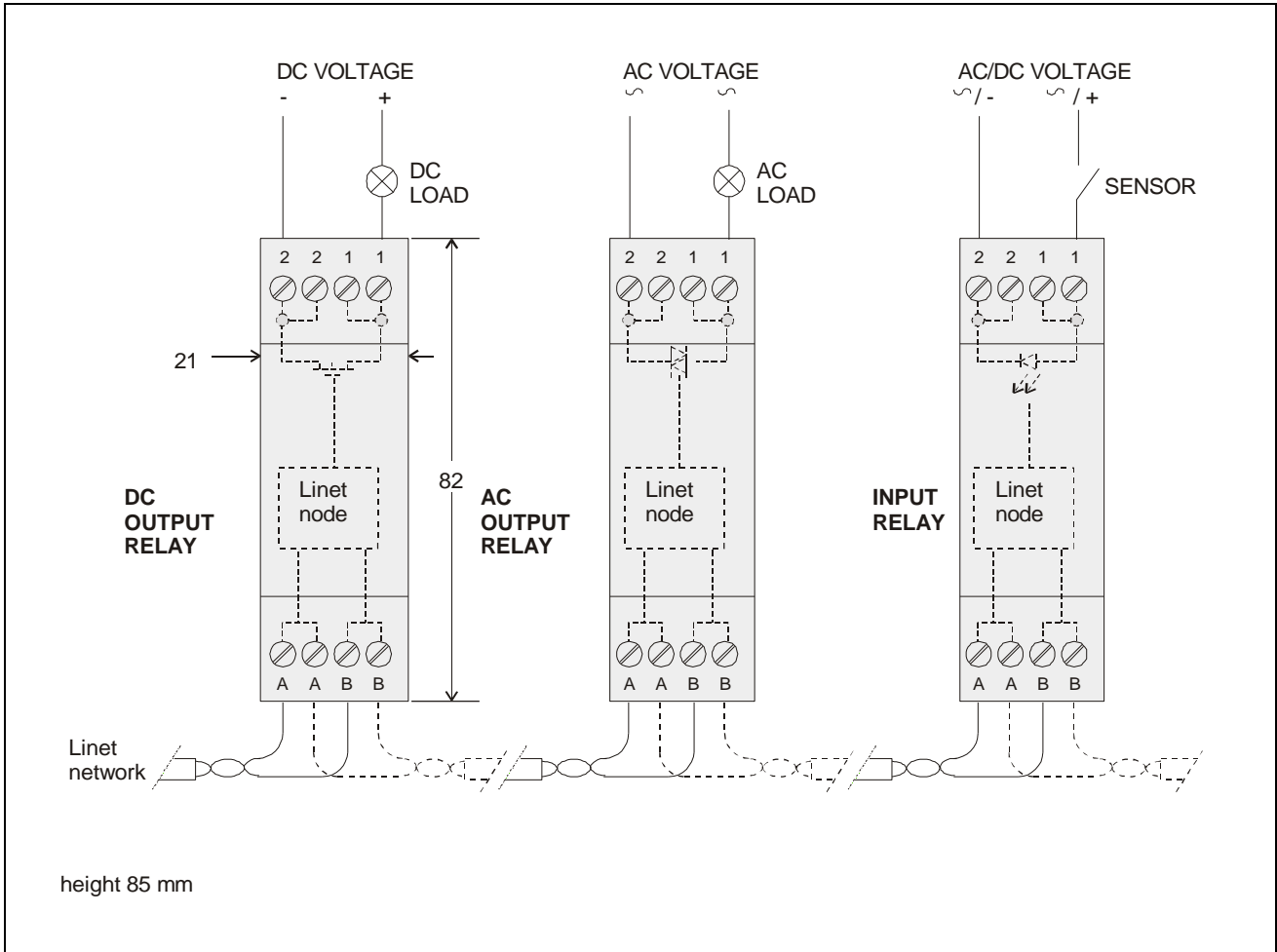


FIGURE 1. CONNECTIONS AND MECHANICAL DIMENSIONS

2. SOLID STATE INPUT RELAYS

MIS1L is a DIN-rail mountable base which includes built-in Linet network node, a pushbutton and a led to cofigure the device, and a relay adapter. Any input relay made by Delcon may be used with the base.

Standard AC input relays are available for voltages between 24 and 240 VAC. Effective multilayer interference suppression ensures reliable switching in industrial areas with electrical noise. Suppression against capacitive leakage from adjacent AC cables means that the relays will work correctly even when the signal comes from long, unshielded signal cables.

Heavy duty AC input relays have additional circuits to prevent damage to the relay by particularly high energy interference spikes. The proxy compatible relays are designed to work correctly where the sensor is a two wire AC proximity switch using a triac as the output component. These proximity switches typically have high leakage currents which may cause other relay types to remain incorrectly on.

TABLE 2. AC INPUT RELAYS

PART NUMBER	DESCRIPTION
Standard relays SLI25CR SLI49CR SLI120CR SLI230CR	24 VAC solid state input relay for standard industrial applications. 48...60 VAC solid state input relay for standard industrial applications. 120 VAC solid state input relay for standard industrial applications. 220...240 VAC solid state input relay for standard industrial applications.
Heavy duty relays SLI120CH SLI230CH	120 VAC solid state input relay for where high energy interference is expected. 220...240 VAC solid state input relay for where high energy interference is expected.
Proxy compatible relays SLI120CRP SLI230CRP	120 VAC solid state input relay for interfacing two wire proximity switches. 220...240 VAC solid state input relay for interfacing two wire proximity switches.
Normally closed relays SLI120CRI SLI230CRI	120 VAC solid state input relay for normally closed operation. 220...240 VAC solid state input relay for normally closed operation.

Standard DC input relays are available for voltages between 12 and 250 VDC. Effective multilayer interference suppression ensures reliable switching in industrial areas with electrical noise. Suppression against capacitive leakage from adjacent AC cables means that the relays will work correctly even when the signal comes from long, unshielded signal cables.

Heavy duty DC input relays have additional circuits to prevent damage to the relay by particularly high energy interference spikes. Minimum load DC input relays have a minimum input load of 15 mA at nominal voltage. It is recommended when the sensor will work incorrectly with a smaller load, for example where relay contacts are used.

TABLE 3. DC INPUT RELAYS

PART NUMBER	DESCRIPTION
Standard relays SLI12CR SLI24CR SLI48CR SLI125CR SLI250CR	12 VDC solid state input relay for standard industrial applications. 24 VDC solid state input relay for standard industrial applications. 48...60 VDC solid state input relay for standard industrial applications. 125VDC solid state input relay for standard industrial applications. 250 VDC solid state input relay for standard industrial applications.
Heavy duty relays SLI125CH SLI250CH	125 VDC solid state input relay for where high energy interference is expected. 250 VDC solid state input relay for where high energy interference is expected.
Minimum load relays SLI24CRL	24 VDC solid state input relay which maintains a minimum load on the sensor:

The I/O relays made by Delcon fulfil EMC-directive 89/336/EEC requirements. Products have been tested according generic standards EN50081-2 and EN50082-2. They fulfil also requirements of the low voltage directive 73/23/EEC.

Full specifications are available at <http://www.delcon.fi>.

3. ORDERING INFORMATION

These relays and bases have been designed by and are manufactured by Delcon Oy (Ltd.), Finland (<http://www.delcon.fi>). For sales info contact Linet Oy (Ltd.), Finland (<http://www.linet-network.com>).

TABLE 4. ORDERING INFORMATION

PART NUMBER	DESCRIPTION
SLO24TL-MOS1L	240 VAC 3A solid state output relay fitted into a base with internal Linet network node
SLO24CL-MOS1L	60 VDC 3A solid state output relay fitted into a base with internal Linet network node
SLI24CR-MIS1L	24 VAC solid state input relay fitted into a base with internal Linet network node
SLI49CR-MIS1L	48...60 VAC solid state input relay fitted into a base with internal Linet network node
... (etc.)	...

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