DELCON

SLO-relays for A size loads: DC-control, DC-load

- Galvanic isolation 4 kV, 8 mm creep distance
- Effective interference elimination
- Compatible with NPN/PNP logic
- LED indication

CE

General description

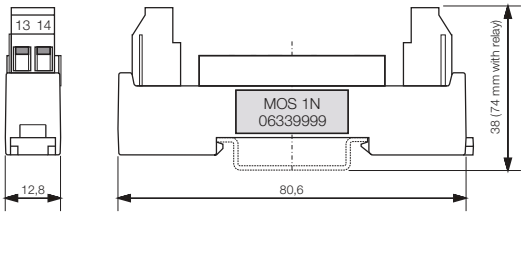
The relays are used as interfaces between control systems and DC loads. The relays handle inductive loads and high DC voltages with low load reduction compared to mechanical relays, which provide a long lifetime. If a diode is mounted across a load, such as 1N4007, the nominal current applies, even with high inductive loads. (Keep in mind that the drop-out time increases when mounting a diode.) The relays have no mechanical parts, which means very reliable application. The integrated interference protection provides reliable operation even in very demanding electrical environments. Thanks to interference protection, signal cables can be run alongside power cables on, for example, cable racks for more than 1.5 km without capacitive cross-talk affecting relays.

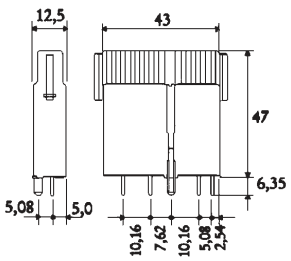
Technical data

(Values at +25 °C)

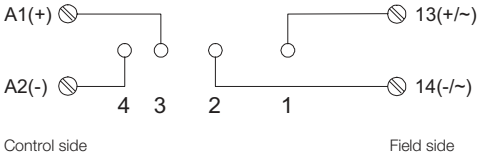
PRIMARY CIRCUIT		SLO5CR	SLO24CR	SLO24CRA	SLO24CRA4	SLO24CRX	SLO120CRA	SLO120CRA4	SLO220CRA	SLO220CRA4
Input voltage	nom.	5 V DC	24 V DC	24 V DC	24 V DC	24 V DC	120 V DC	120 V DC	220 V DC	220 V DC
Input voltage	max.	15 V DC	32 V DC	32 V DC	32 V DC	32 V DC	140 V DC	140 V DC	250 V DC	250 V DC
Power consumption	max.	15 mA	15 mA	15 mA	15 mA	15 mA	4 mA	4 mA	4 mA	4 mA
Input impedance	typical	420 kΩ	2 kΩ	2 kΩ	2 kΩ	2 kΩ	34 kΩ	34 kΩ	63 kΩ	63 kΩ
Activation voltage	typical	2.7 V DC	16 V DC	16 V DC	16 V DC	16 V DC	80 V DC	80 V DC	170 V DC	170 V DC
Drop-out voltage	typical	2.5 V DC	14 V DC	14 V DC	14 V DC	14 V DC	60 V DC	60 V DC	120 V DC	120 V DC
SECONDARY CIRCUIT										
Load voltage	max.	0-60 V DC	0-60 V DC	0-300 V DC	0-300 V DC	0-32 V DC	0-300 V DC	0-300 V DC	0-300 V DC	0-300 V DC
Voltage drop at max. load	typical	0.5 V DC	0.5 V DC	1.5 V DC	0.8 V DC	0.4 V DC	1.5 V DC	0.8 V DC	1.5 V DC	0.8 V DC
Load current	max.	3 A	3 A	1.8 A	4 A	10 A	1.8 A	4 A	1.8 A	4 A
Peak current max. 10 ms		15 A	15 A	12 A	20 A	80 A	12 A	20 A	12 A	20 A
Activation time	typical	0.3 ms	0.3 ms	0.3 ms	0.3 ms	0.3 ms	0.5 ms	0.5 ms	0.5 ms	0.5 ms
Drop-out time	typical	0.3 ms	0.3 ms	0.3 ms	0.3 ms	0.3 ms	0.5 ms	0.5 ms	0.5 ms	0.5 ms
Operating temperature		See the general technical information.								

Dimensions





Connections



Ordering guide

Order number	Description	Input	Output	Mounting
SLO5CR	Output relay	5 V DC	0-60 V DC/3 A	Plug-in
SLO24CR	Output relay	24 V DC	0-60 V DC/3 A	Plug-in
SLO24CRA4	Output relay	24 V DC	0-300 V DC/4 A	Plug-in
SLO24CRA	Output relay	24 V DC	0-300 V DC/1.8 A	Plug-in
SLO24CRX*	Output relay	24 V DC	0-32 V DC/10 A	Plug-in
SLO120CRA	Output relay	120 V DC	0-300 V DC/1.8 A	Plug-in
SLO120CRA4	Output relay	120 V DC	0-300 V DC/4 A	Plug-in
SLO220CRA	Output relay	120 V DC	0-300 V DC/1.8 A	Plug-in
SLO220CRA4	Output relay	220 V DC	0-300 V DC/4 A	Plug-in
MOS1GN	Socket for output relays. Standard			
JUMPER 16-13	Jumper bar for Delcon's sockets, max. 16/bar.			

* For mounting in socket MOS1GN or MBS16, 6.3 A applies. For solder connection in socket 10A order no. SLO24CRXS.