

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

- Galvanic isolation 4 kV, 8 mm creep distance
- 3 A inductive or resistive load
- Effective interference elimination
- LED indication



### General description

The relays are used as an interface between control systems and AC loads. The relays can handle inductive loads without load current reduction, which makes them very suitable for connection to, for example, solenoid valves and contactors. 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,

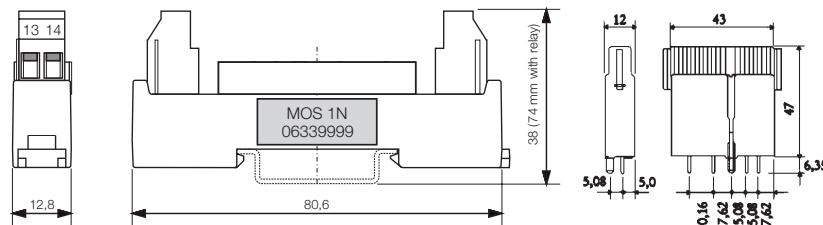
for example, cable racks for more than 1.5 km without capacitive cross-talk affecting relays. The SLOP models are especially designed for connection to 2-wire sensors that produce leakage current. The relays are blind to leakage currents up to 3.0 mA. For forward/reverse control of AC motors, the SLO24TRA is used. The relay has a higher operating voltage and withstands regenerated voltages from motors.

### Technical data

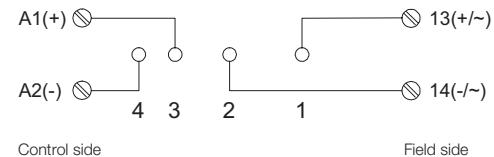
(Values at +25 °C)

PRIMARY CIRCUIT		SLO5TR	SLO24TR	SLO24IRA	SLOP120TR	SLOP230TR	SLO24TRA
Input voltage	nom.	5 V DC	24 V DC	24 V DC	120 V AC	230 V AC	24 V DC
Input voltage	max.	7 V DC	32 V DC	32 V DC	140 V AC	265 V AC	32 V DC
Power consumption	max.	17 mA	17 mA	15 mA	6 mA	6 mA	17 mA
Input impedance	typical	0.3 kΩ	1.6 kΩ	2 kΩ	24 kΩ	46 kΩ	1.4 kΩ
Activation voltage	typical	2.7 V DC	16 V DC	16 V DC	80 V AC	170 V AC	16 V DC
Drop-out voltage	typical	2.5 V DC	14 V DC	14 V DC	65 V AC	110 V AC	14 V DC
Drop-out current					3 mA	3 mA	
SECONDARY CIRCUIT							
Load voltage	max.	0-265 V AC	0-265 V AC	0-265 V AC 0-300 V DC	0-265 V AC	0-265 V AC	0-265 V AC motor loads 0-460 V AC static loads
Voltage drop at max. load	typical	1 V	1 V	1.5 V	1 V	1 V	1 V
Load current	max.	3 A	3 A	1.2 A	3 A	1.5 A	2.5 A
Peak current, max. 20 ms		90 A	90 A	8 A	90 A	90 A	65 A
Leakage current	typical	2 mA	50 µA	50 µA	2 mA	2 mA	50 µA
Activation time	typical	0.5 ms	0.5 ms	0.3 ms	10 ms	10 ms	0.5 ms
Drop-out time	typical	11 ms	11 ms	0.3 ms	20 ms	20 ms	11 ms
Operating temperature				See the technical information.			

### Dimensions



### Connections



### Ordering guide

Part number	Description	Input	Output	Mounting
SLO5TR	Output relay	5 V DC	0-265 V AC/3 A	Plug-in
SLO24TR	Output relay	24 V DC	0-265 V AC/3 A	Plug-in
SLO24IRA	Output relay	24 V DC	0-300 DC or 0-265 V AC/1.2 A	Plug-in
SLOP120TR	Output relay	120 V AC	0-265 V AC/3 A	Plug-in
SLOP230TR	Output relay	230 V AC	0-265 V AC/1.5 A	Plug-in
SLO24TRA	Output relay	24 V DC	0-265 V AC Motor load 0-460 V AC Static load	Plug-in
MOS1GN	Socket for output relays. Standard			Din rail
JUMPER 16-13	Jumper bar for Delcon's sockets, 16 way strip.			