

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,

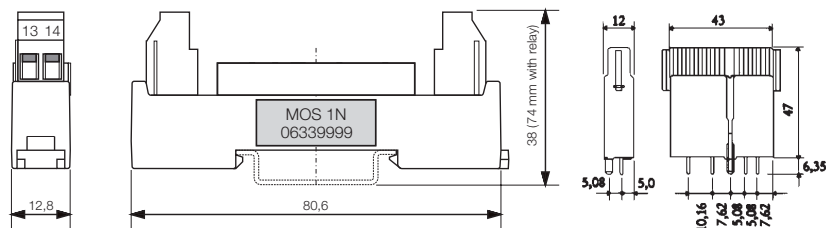
for example, cable racks for more than 1.5 km without capacitive cross-talk affecting relays. The SLOP models are especially designed for connection to 2-wire sensors that produce leakage current. The relays are blind to leakage currents up to 3.0 mA. For forward/reverse control of AC motors, the SLO24TRA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

Technical data

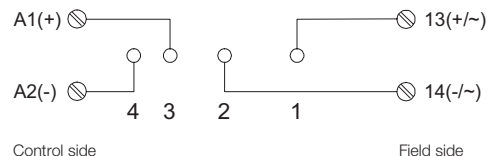
(Values at +25 °C)

| 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. | | | |